VIDEOCASSETTE RECORDER

VO-9600

VOL-2



SONY®

SERVICE MANUAL

SPECIFICATIONS

System

Recording system Rotary 2-head helical scan
Luminance: fm recording
Color signal: converted subcarrier direct recording

Video signal system
EIA standards, NTSC color

Video

Inputs VIDEO IN (BNC type) ×1
1.0 Vp-p ±0.3 Vp-p, 75 ohms, unbalanced sync negative
TV (8-pin) ×1

Outputs VIDEO OUT 1, 2 (BNC type) ×1 each
1.0 Vp-p ±0.2 Vp-p, 75 ohms, unbalanced sync negative
TV (8-pin) ×1

Horizontal resolution
SP mode recording: 330 lines (both B/W and color)
Conventional recording: 250 lines (both B/W and color)

S/N SP mode
Color: more than 46 dB
Luminance (Y): more than 48 dB
Conventional format
Color: more than 46 dB (color)
B/W: more than 48 dB

Subcarrier input SC IN (BNC type) ×1
1 Vp-p (0.5 to 3 Vp-p), 75 ohms, unbalanced

Sync signal input SYNC IN (BNC type) ×1
2.5 Vp-p (1 to 5 Vp-p), 75 ohms, unbalanced
RF OUT (OFF TAPE) ×1
0.5 (0.3 to 1.0 Vp-p), 75 ohms, unbalanced

Recording level control
Automatic

Audio

Inputs AUDIO LINE IN CH-1/L, CH-2/R (XLR 3-pin female) ×1 each
+4 dB, 10 k ohms, balanced
MICROPHONE CH-1/L, CH-2/R (phone jack) ×1 each
−60 dB, 3 k ohms, unbalanced
TV (8-pin) ×1

Outputs AUDIO LINE OUT CH-1/L, CH-2/R (XLR 3-pin male) ×1 each
+4 dB (at 600 ohm load), balanced
AUDIO MONITOR (phono jack) ×1
−5 dB (at 47 k ohm load)
TV (8 pin) ×1
HEADPHONES (stereo phone jack)
For 8-ohm headphones
Level adjustable (from −26 to −46 dB)

S/N With Dolby NR off
52 dB (KSP, KSP-S tapes)
50 dB (KCA, KCS tapes)
(both channel 1 and 2 at 3% distortion)

Frequency response 50 to 15,000Hz ± 3 dB (both audio channel 1 and 2 with Dolby NR off)

Recording level control
Manual or limiter selectable

Other functions

Memory backup of programmed operation
3 years from shipment

Pause A still picture is obtained with long pause function

Search Still, 1/30 to 5 times normal speed in both forward and reverse directions
With RM-580 and RM-500: picture search with 8 times normal speed (both KSP and KSP-S tapes)

Tracking control Possible

Skew control Possible

Sync system Automatic switching between internal and external

Dropout compensator
Built-in

Tape transport

Tape speed 95.3 mm/sec.

Recording and playback time
Approx. 60 minutes (with KSP-60)

Fast forward and rewind time
Within 4 minutes (with KSP-60)

Wow and flutter Less than 0.18% RMS

Tape compatibility
U-matic video cassette tapes

Usable tapes KSP, KSP-S, KCA, KCS type

General

Power requirements
90 – 132 V AC, 48 – 64 Hz

Power consumption
75 W (with the RM-580 and RFK-634)

Operating position Horizontal

Storage temperature
−20°C to +60°C

Operating temperature
5°C to 40°C

Dimensions 424 × 192 × 492 mM (w/h/d)
(16 3/4 × 7 5/8 × 19 3/8 inches)
including projecting parts and controls

Weight Approx. 18 kg (39 lb 11 oz)

Supplied accessories
Operating instructions (1)
RF modulator compartment cover (1)

Design and specifications are subject to change without notice.

Optional accessories

BKU-701 computer interface board
FCG-700 frame code generator
RX-707 auto search control unit (for RS-232C interface)
RX-353, RX-303 auto search control unit (for 33-pin interface)
RM-690 remote control unit (for REMOTE connector)
RM-580, RM-500 remote control unit (for 33-pin interface)
RFK-634 RF kit
RMM-507 rack mount kit
RM-555 multi remote control unit

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VIDEOCASSETTE RECORDER

VO-9600

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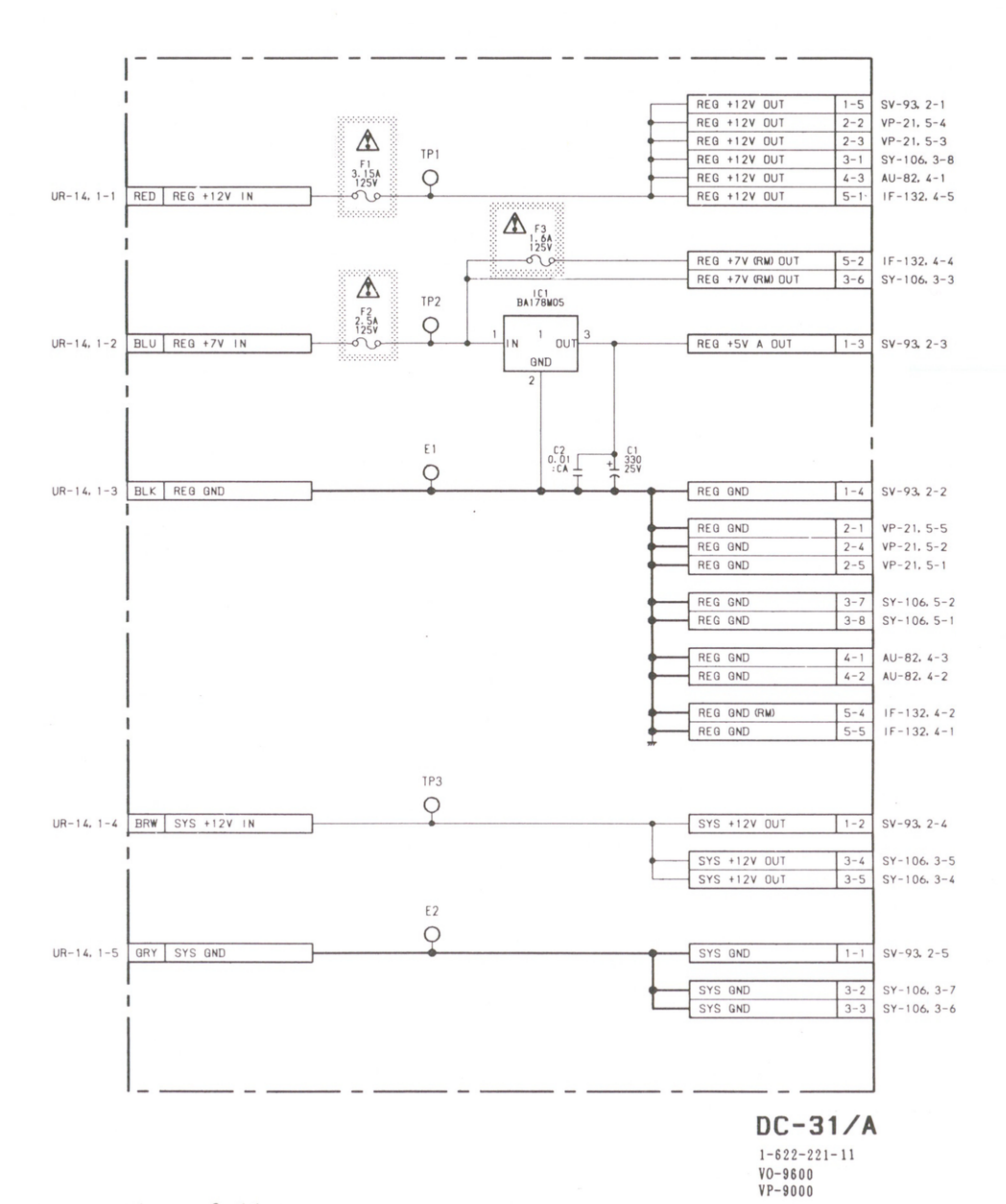
CORRECTION-1

Please file this CORRECTION-1 to your MANUAL

VO-9600 (UC)
9-966-925-91 VOLUME-2

Sony Corporation

Printed in Japan
1987.9 08



2. Correct your manual as follows.

1) PAGE 15-46 (AC-65 board) Added (under line)

⚠F1 1-532-743-11 S FUSE, GLASS TUBE 2.0A 125V

2) PAGE 15-50 (DC-31 board) Added

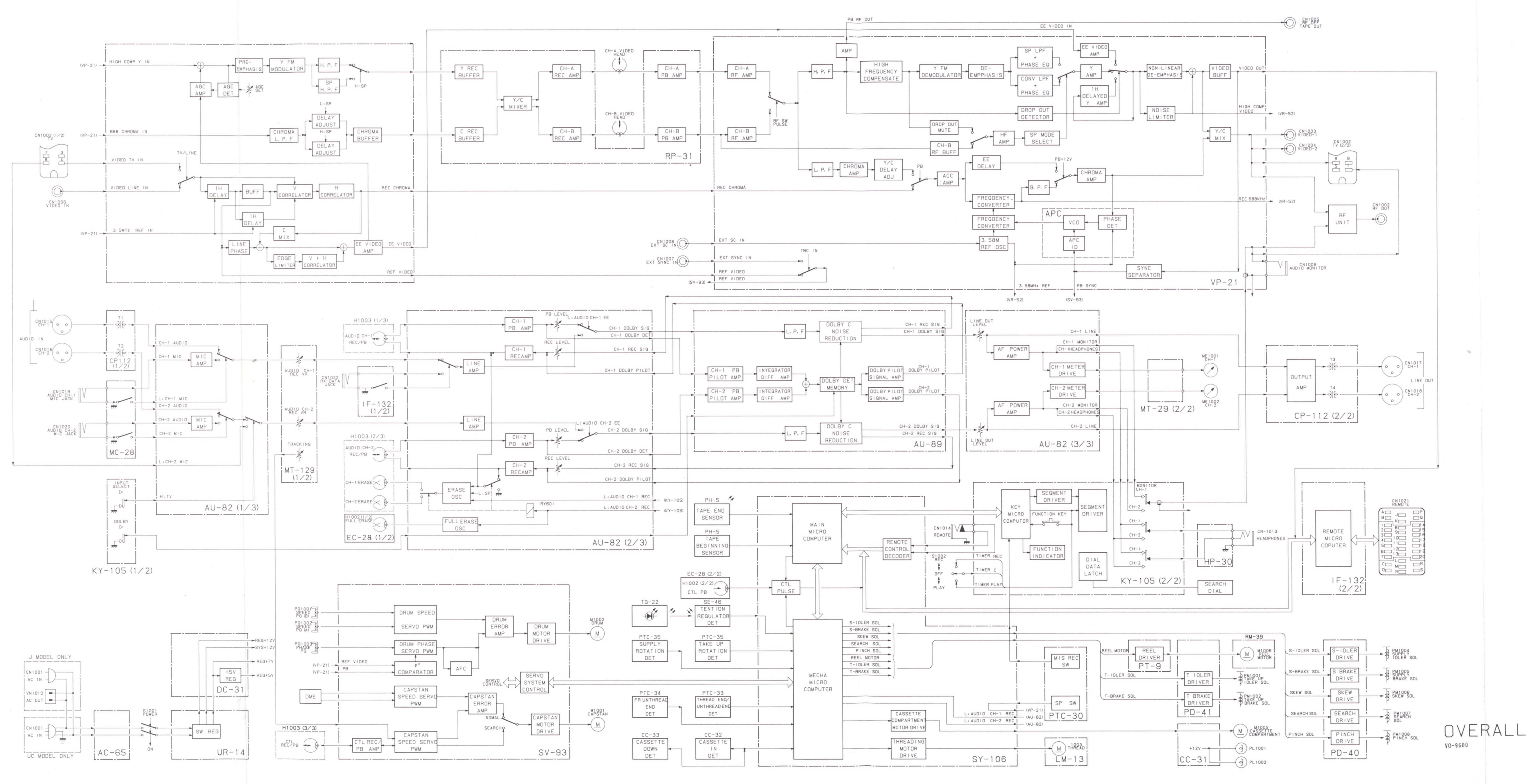
⚠F3 1-532-742-11 S FUSE, GLASS TUBE 1.6A 125V

3) PAGE 15-64 (FRAME) Corrected

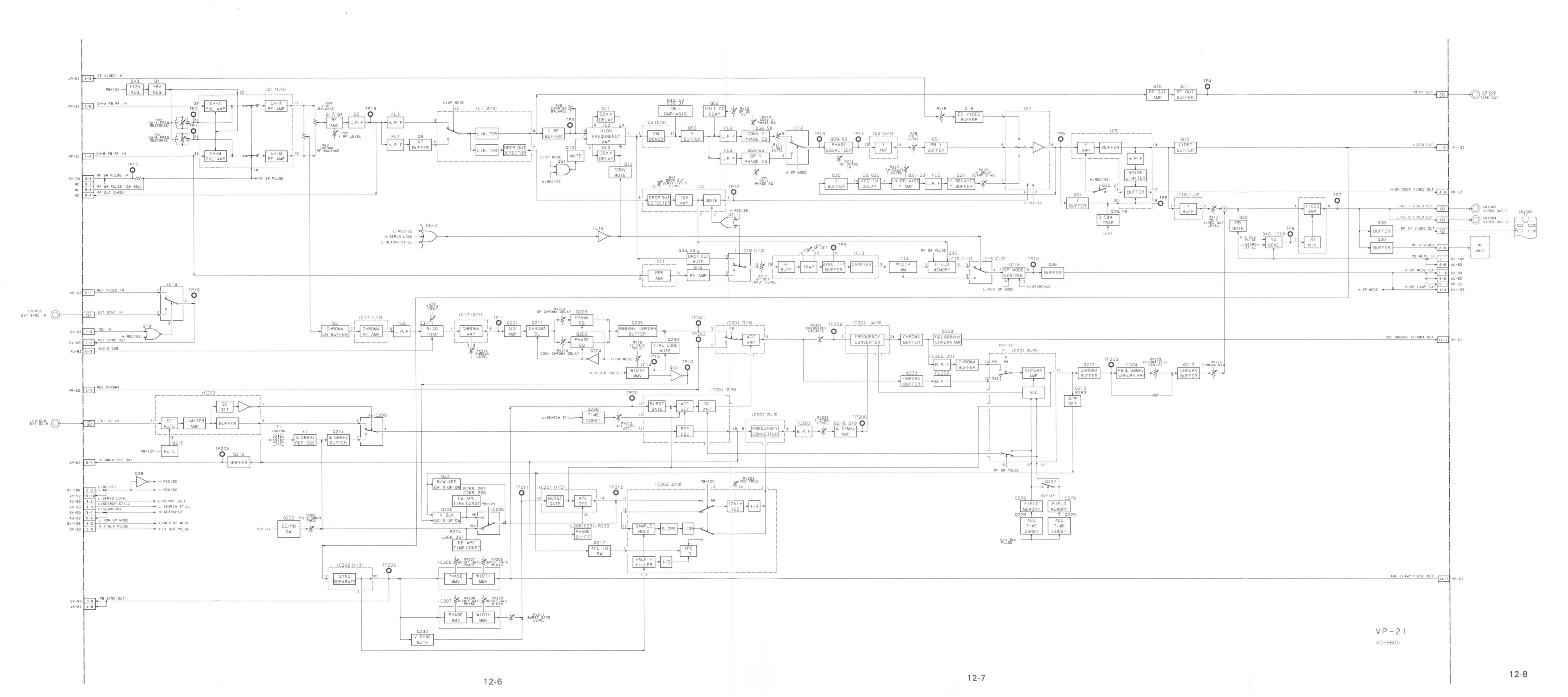
⚠F1	1-532-745-11	S	FUSE, GLASS TUBE 3.15A 125V
F2	1-532-744-11	S	FUSE, GLASS TUBE 2.5A 125V
F3	1-532-742-11	S	FUSE, GLASS TUBE 1.6A 125V

SECTION 12
BLOCK DIAGRAM

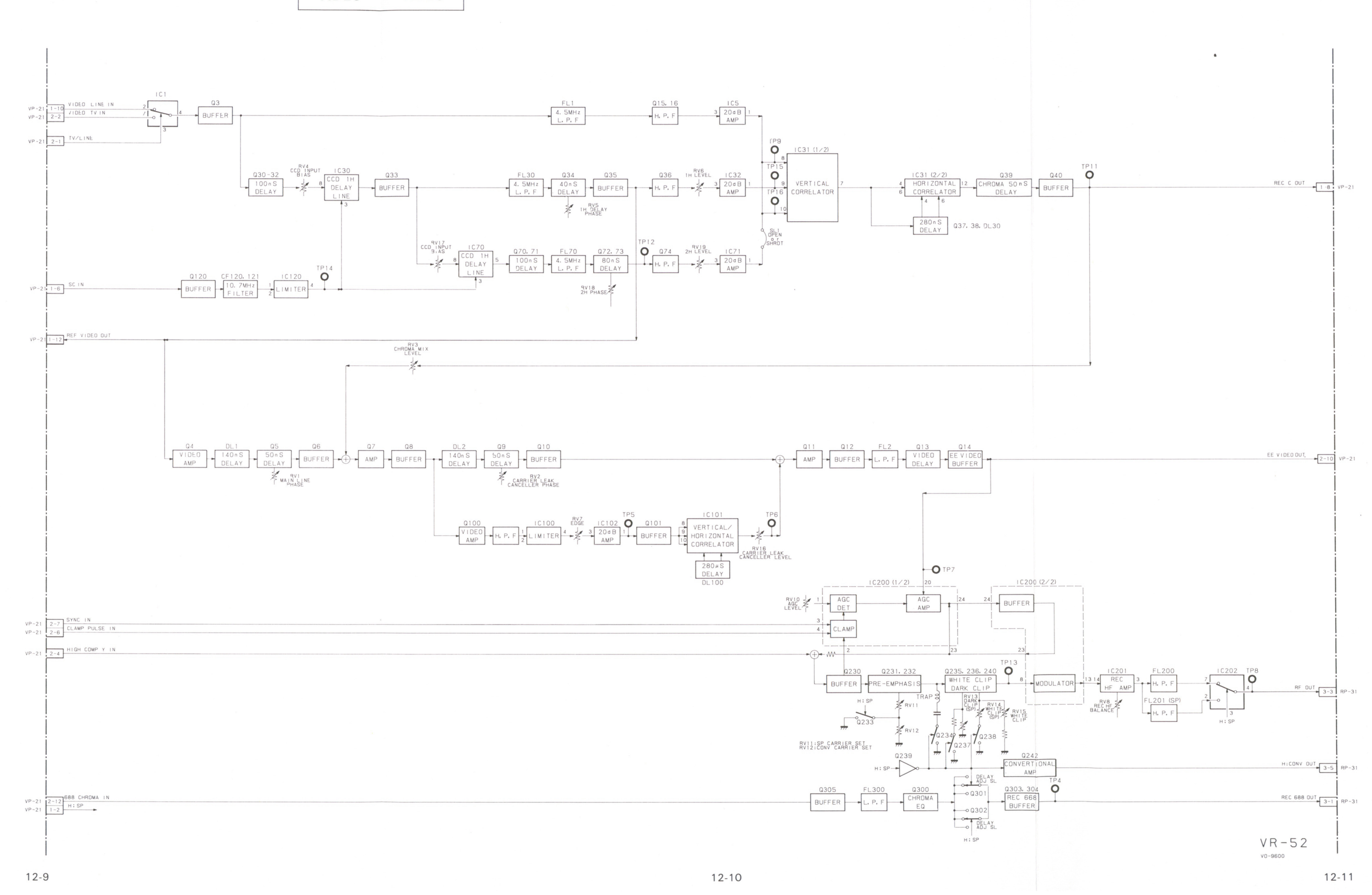
OVERALL
BLOCK DIAGRAM



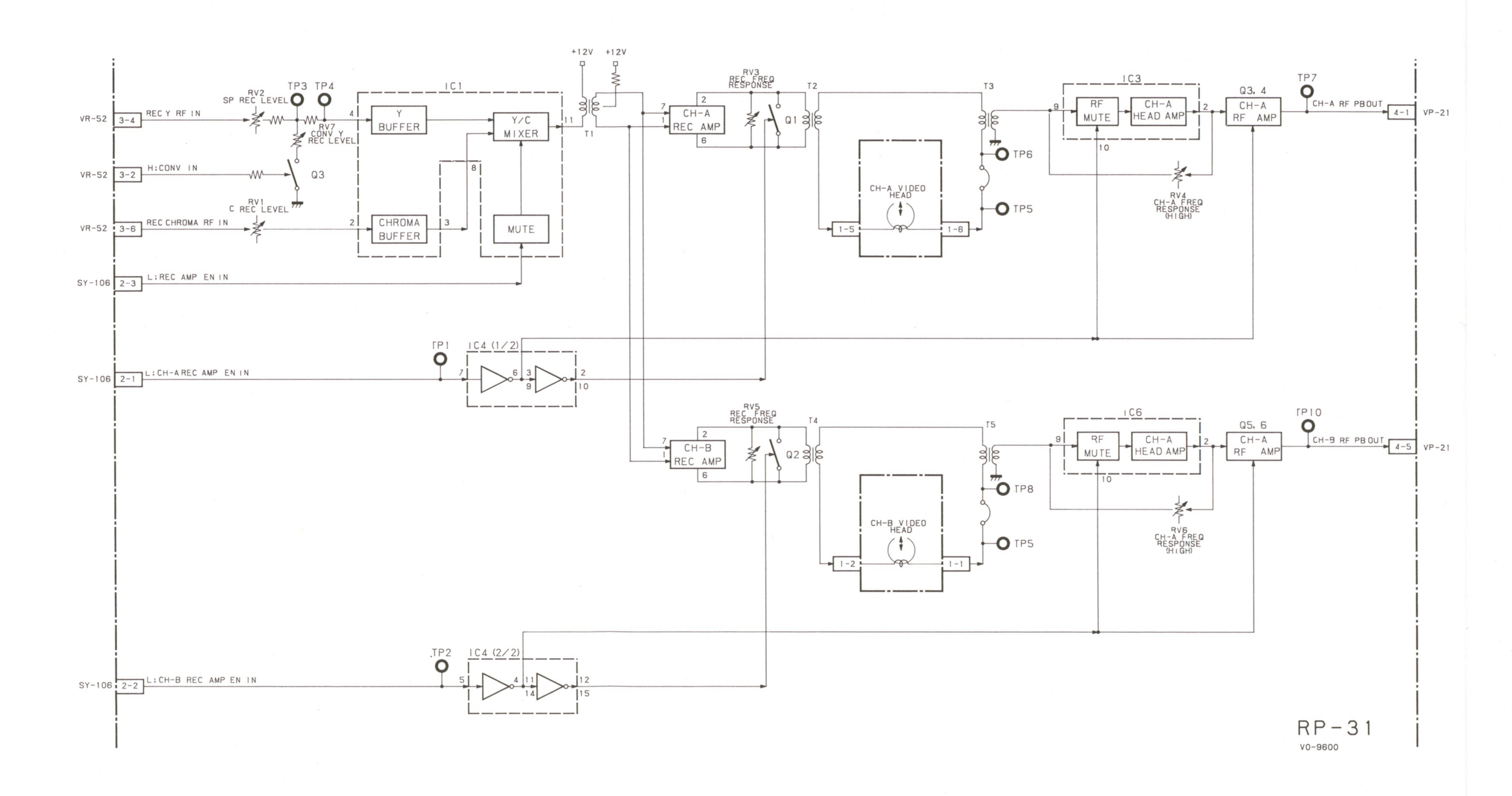
VIDEO SYSTEM
BLOCK DIAGRAM



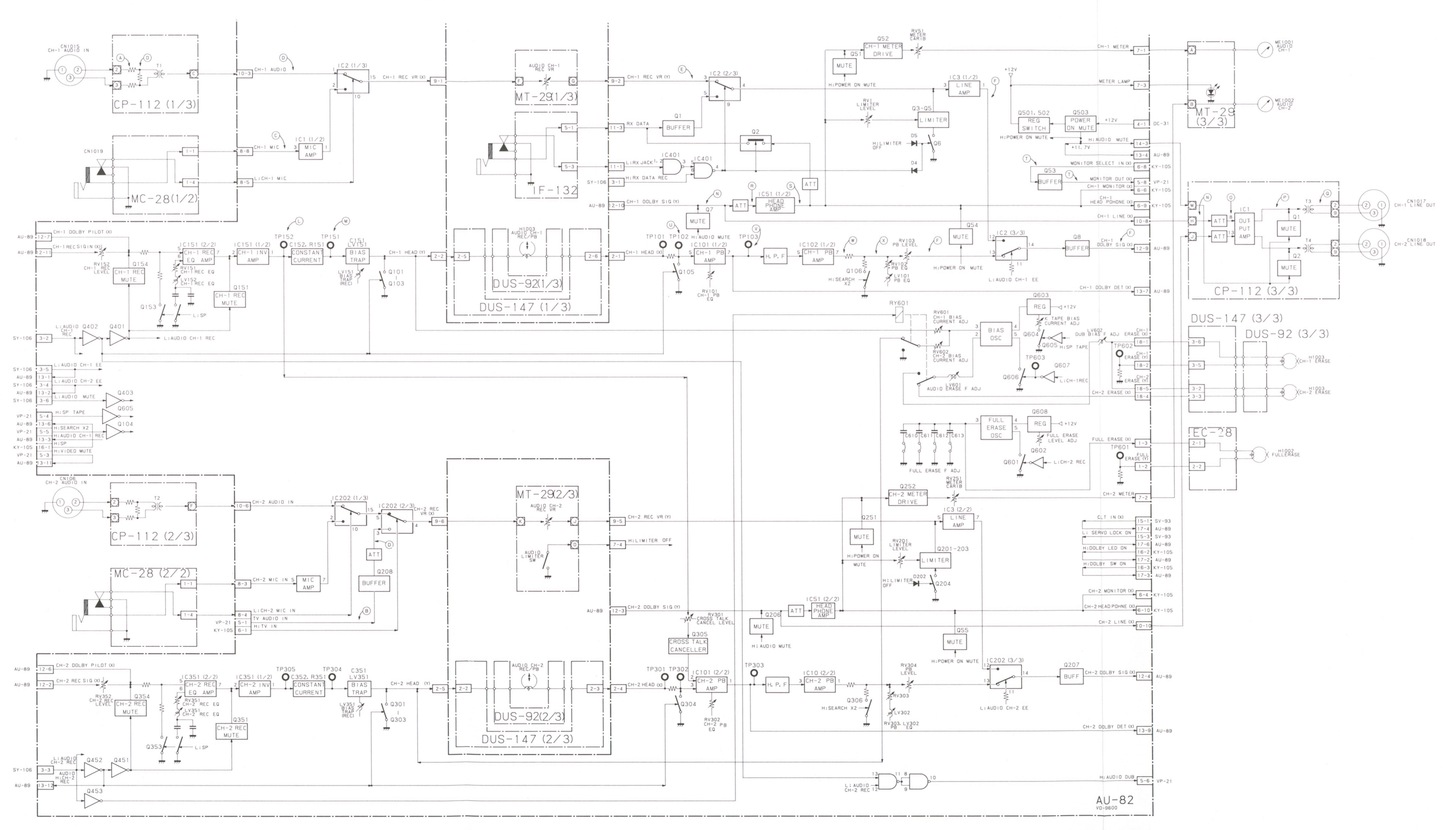
VIDEO SYSTEM BLOCK DIAGRAM



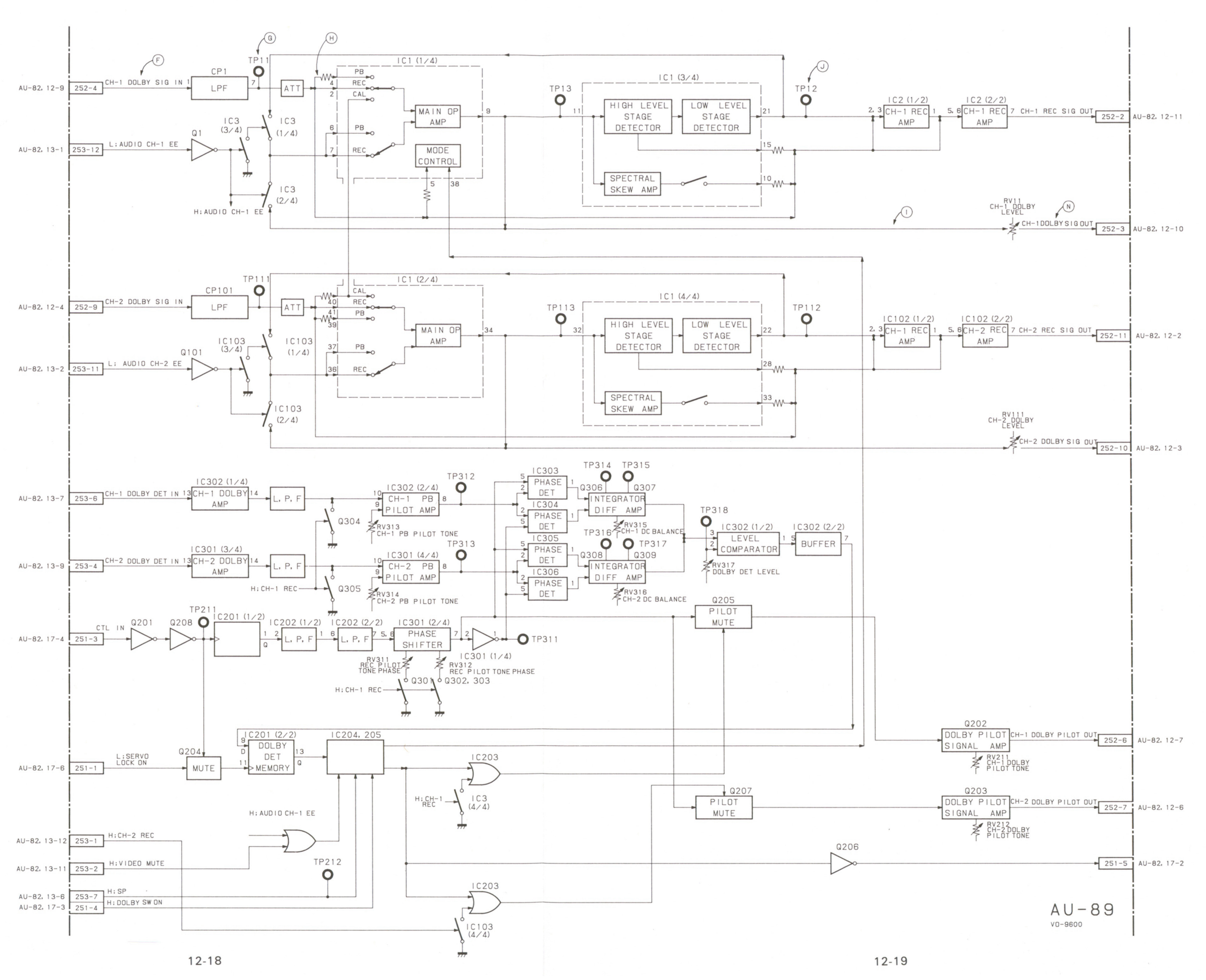
VIDEO SYSTEM BLOCK DIAGRAM



AUDIO SYSTEM BLOCK DIAGRAM

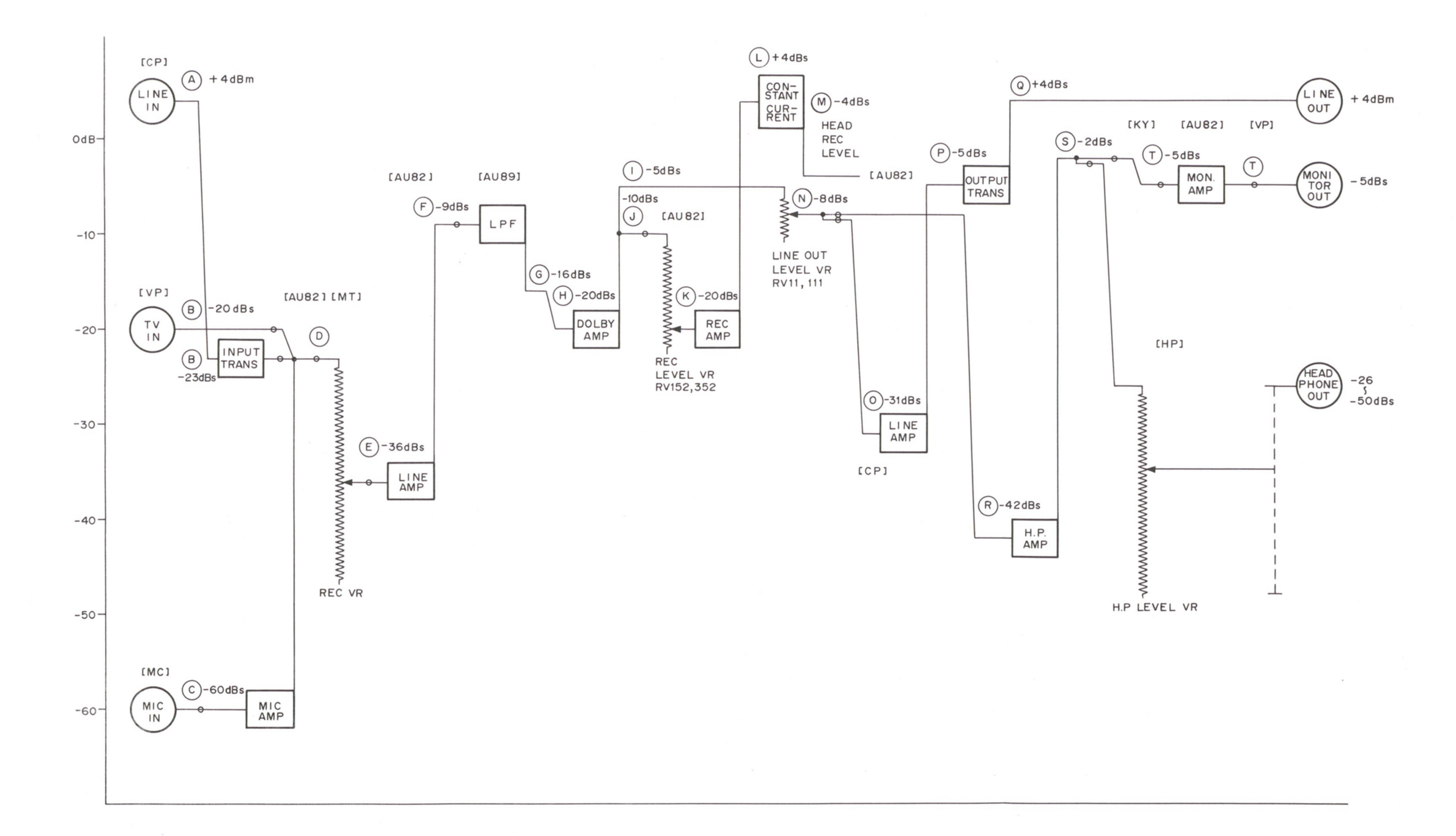


AUDIO SYSTEM BLOCK DIAGRAM

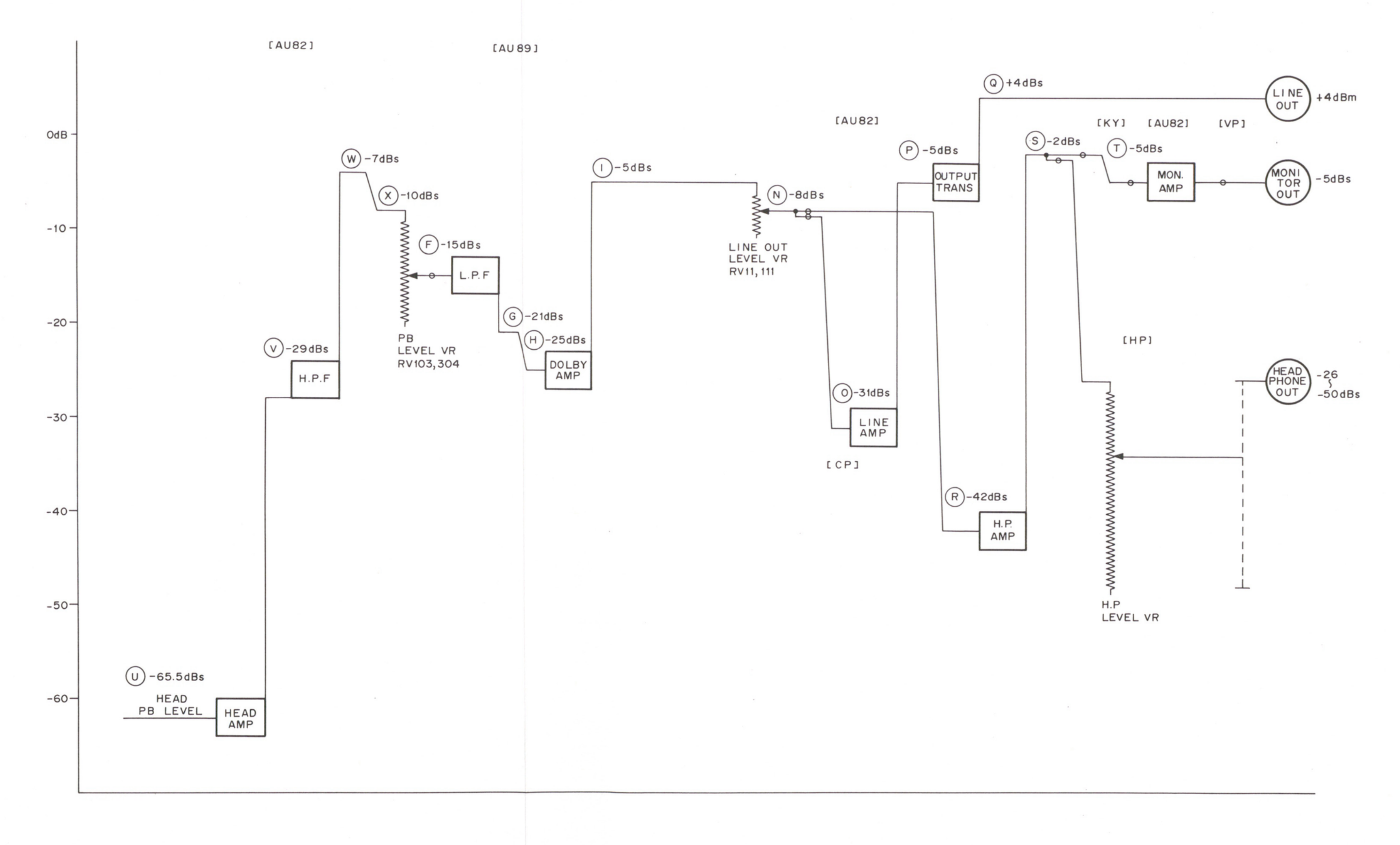


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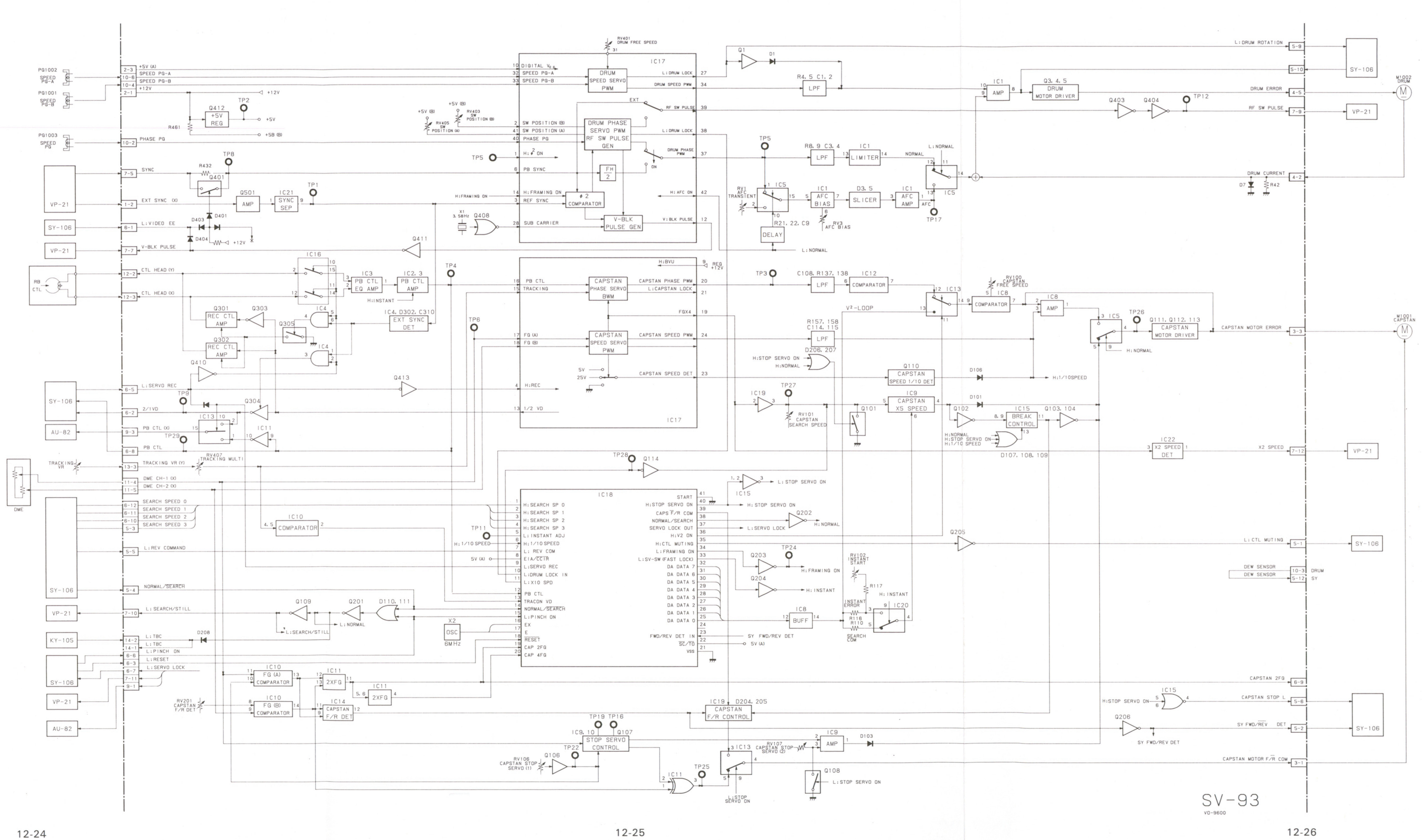
Audio Level Diagram EE, REC系



Audio Level Diagram PB系

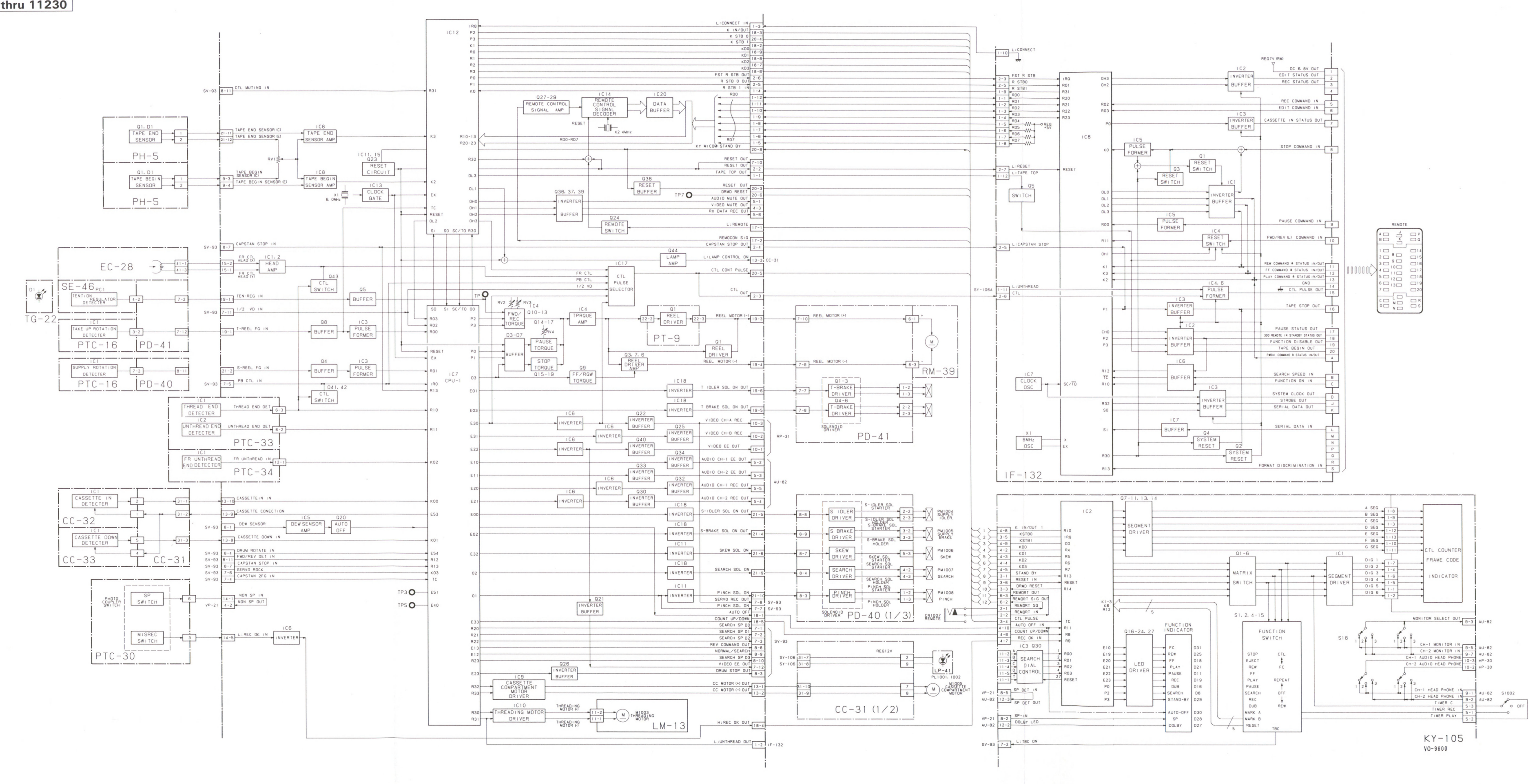


SERVO SYSTEM BLOCK DIAGRAM



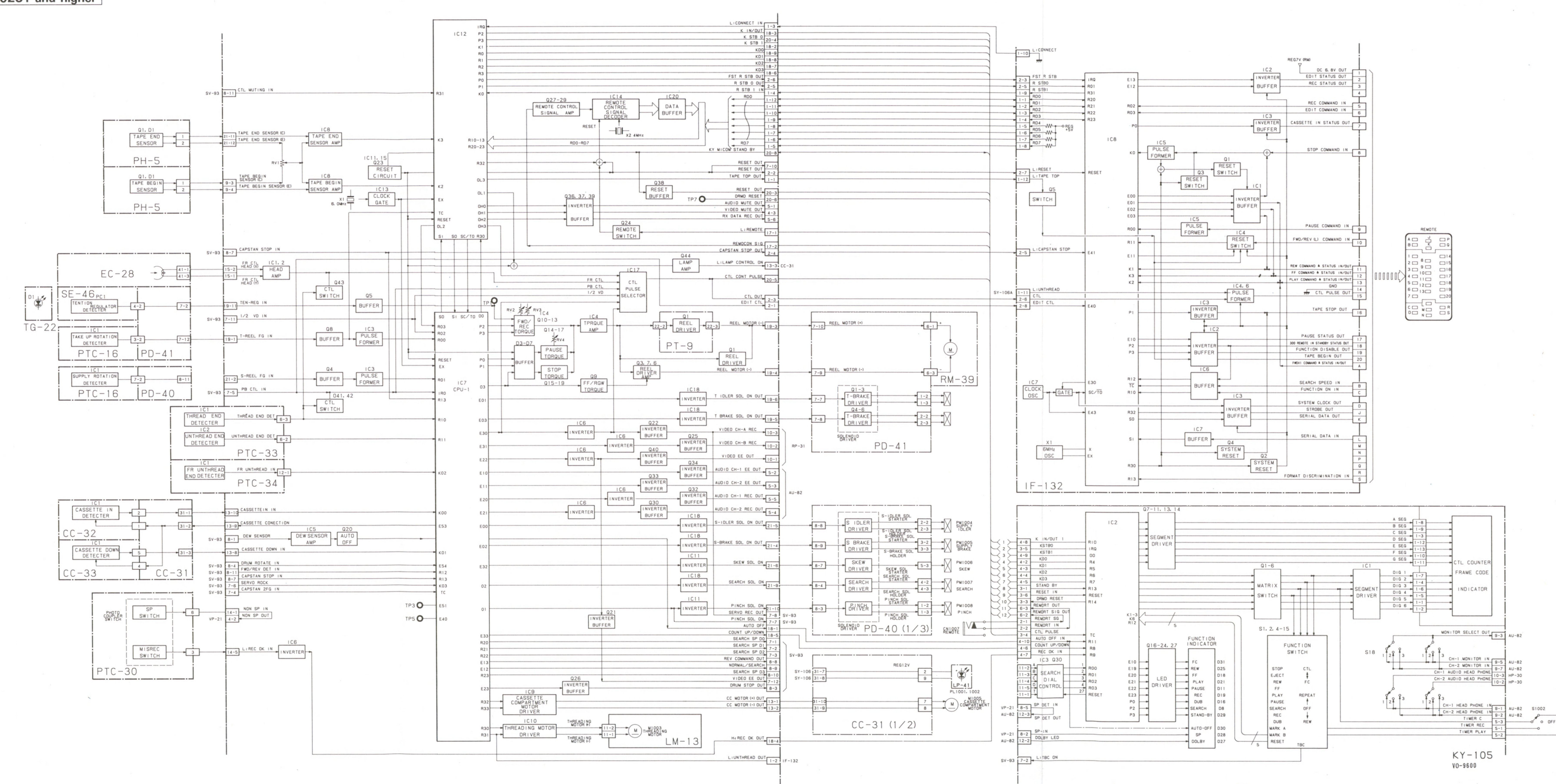
SYSTEM CONTROL BLOCK DIAGRAM

UC; S/N 10001 thru 11870
J; S/N 10001 thru 11230



SYSTEM CONTROL BLOCK DIAGRAM

UC; S/N 11871 and higher	
J; S/N 10231 and higher	



SECTION 13
SEMICONDUCTOR ELECTRODES

ここに記載されているIC、トランジスタ、ダイオードは、それぞれの機能を等価的に表わしたものです。したがって互換性を表わすものではありません。(互換性のない型名が併記されている事もあります。) 部品の交換をする時は、SPARE PARTS の章を参照して下さい。

ICs, transistors and diodes whoses functions are equivalent are described here. Therefore, incompatible device names may be described together. For parts replacement, refer to the Spare Parts section in this manual.

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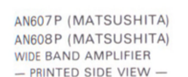
等価回路はICメーカーの Data Book に従いました。

The circuit diagram of each IC is obtained from the IC data book published by the manufacturer.

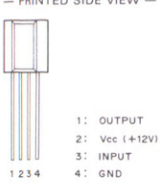
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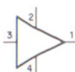
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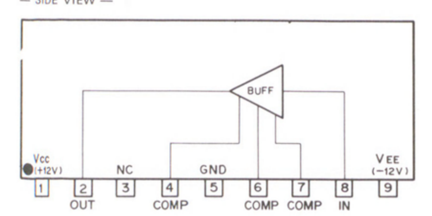


AN607P (MATSUSHITA)
AN608P (MATSUSHITA)
WIDE BAND AMPLIFIER
— PRINTED SIDE VIEW —

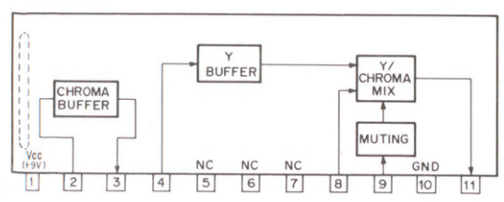




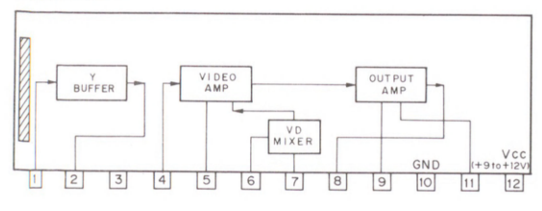
BX366A (SONY)
BX366AL (ROHM)
VIDEO BUFFER
— SIDE VIEW —



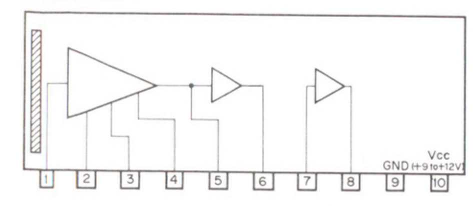
BX373A (SONY)
BX373AL (ROHM)
MIX AMP
— REAR VIEW —



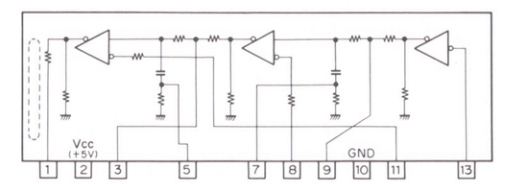
BX388 (SONY)
BX388L (ROHM)
VIDEO AMP/VD MIXER
— PRINTED SIDE —



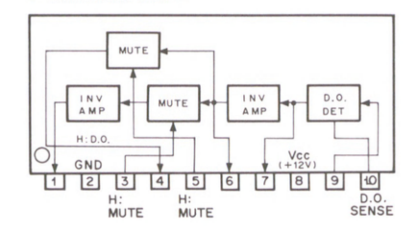
BX389 (SONY)
BX389L (ROHM)
VIDEO AMPLIFIER
— PRINTED SIDE —



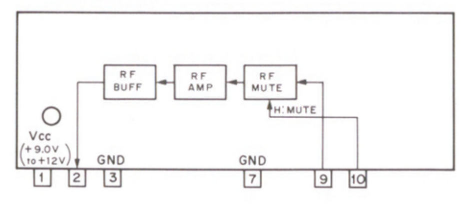
BX1140 (SONY)
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— REAR VIEW —



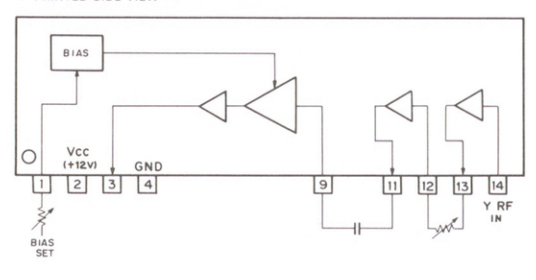
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BX1248L (ROHM)
DROPOUT DETECTOR
— PRINTED SIDE VIEW —



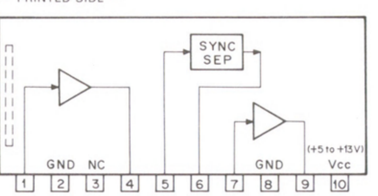
BX1265 (SONY)
BX1265L (ROHM)
VIDEO HEAD AMPLIFIER/MUTING
— PRINTED SIDE VIEW —



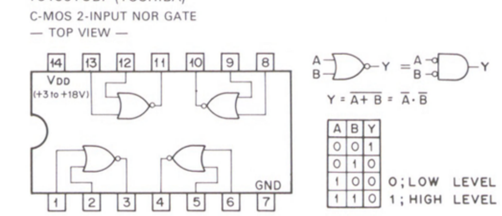
BX1257 (SONY)
BX1257L (ROHM)
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— PRINTED SIDE VIEW —



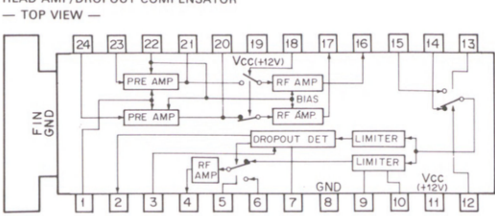
BX3915A (SONY)
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— PRINTED SIDE —



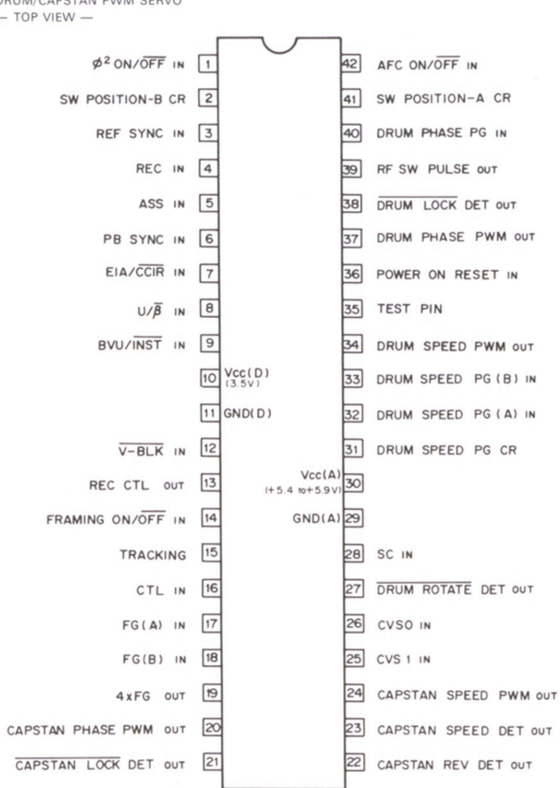
CD4001AE/BE (RCA)
TC4001BF (TOSHIBA) FLAT PACKAGE
TC4001UBP (TOSHIBA)
C-MOS 2-INPUT NOR GATE
— TOP VIEW —

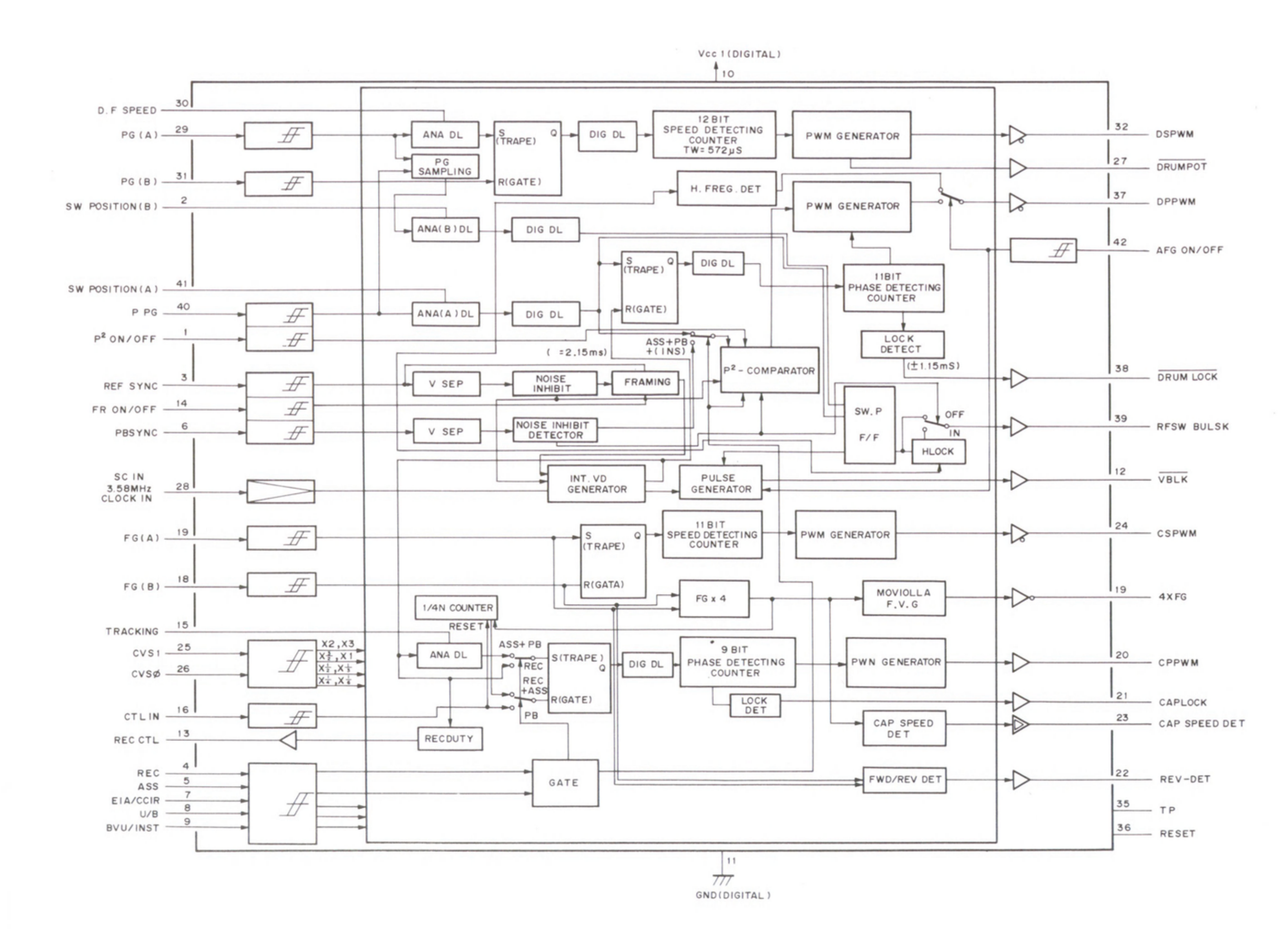


CX134A (SONY)
HEAD AMP/DROPOUT COMPENSATOR
— TOP VIEW —

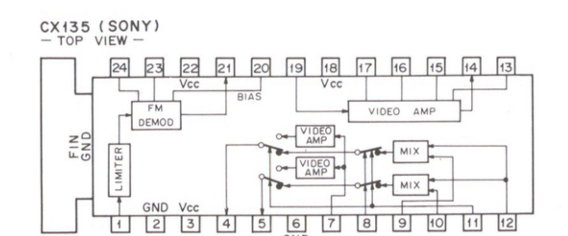


CX194B (SONY)
DRUM/CAPSTAN PWM SERVO
— TOP VIEW —

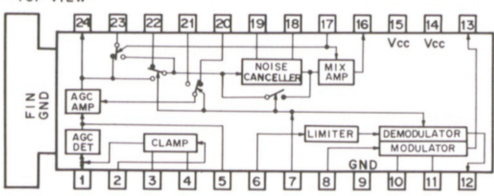




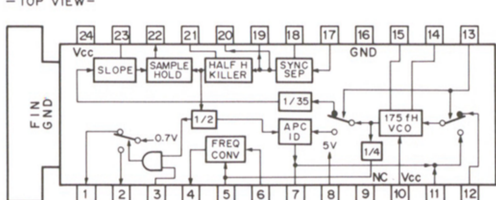
CX135 (SONY)
— TOP VIEW —



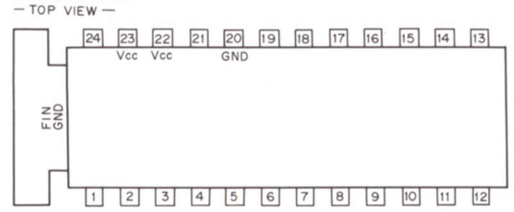
CX187 (SONY)
LUMINANCE SIGNAL PROCESSER
—TOP VIEW—

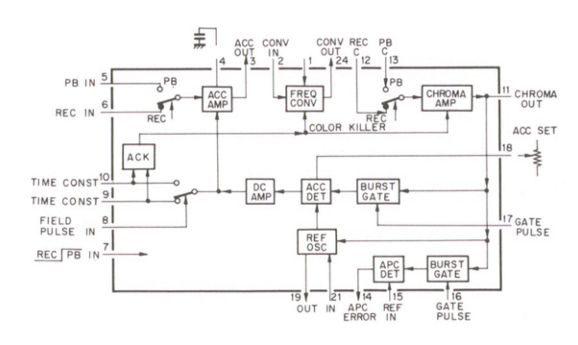


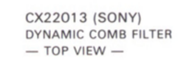
CX 805 (SONY)
—TOP VIEW—

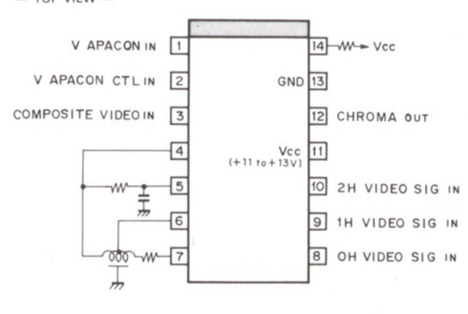


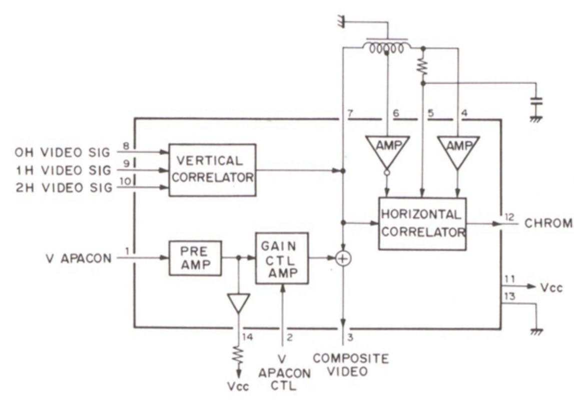
CX872 (SONY)
— TOP VIEW —



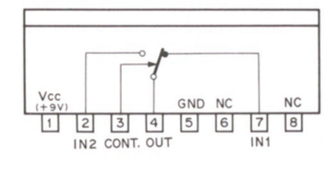


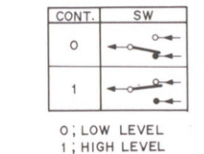






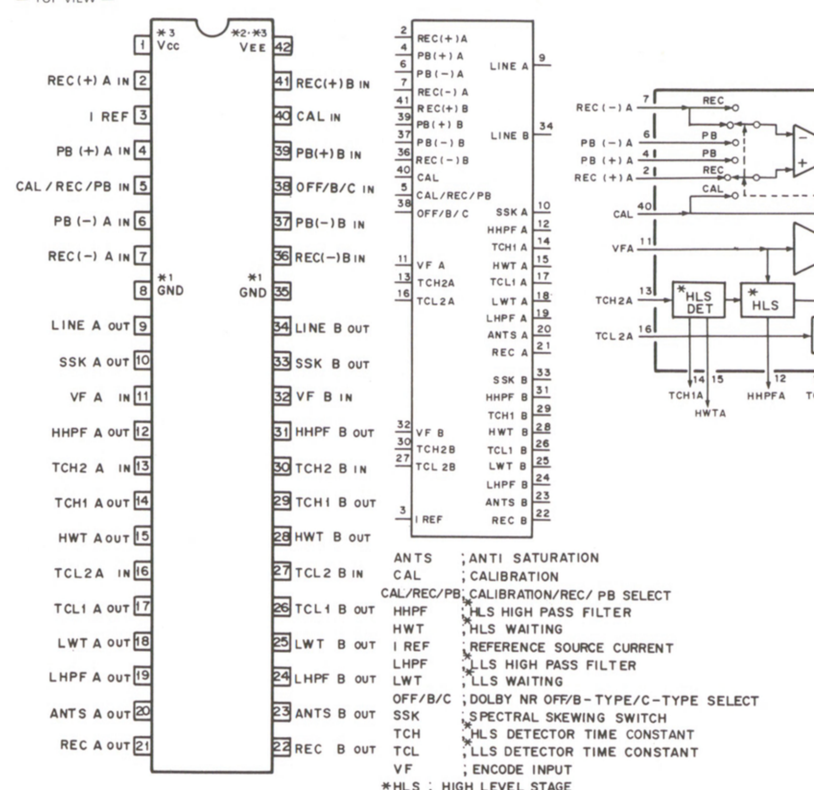
CX20061 (SONY)
ANALOG SWITCH
— SIDE VIEW —





0 ; LOW LEVEL
1 ; HIGH LEVEL

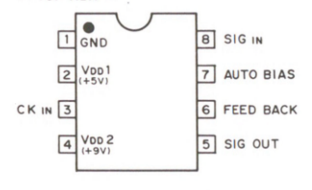
CX20188 (SONY)
DOLBY B TYPE AND C TYPE, NOISE REDUCTION SYSTEM
— TOP VIEW —

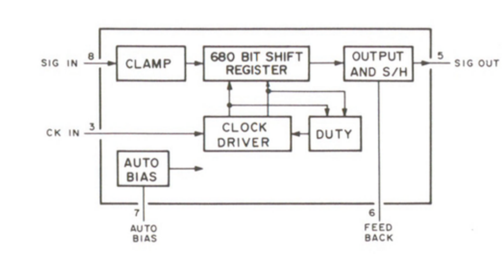


*HLS ; HIGH LEVEL STAGE
*LLS ; LOW LEVEL STAGE

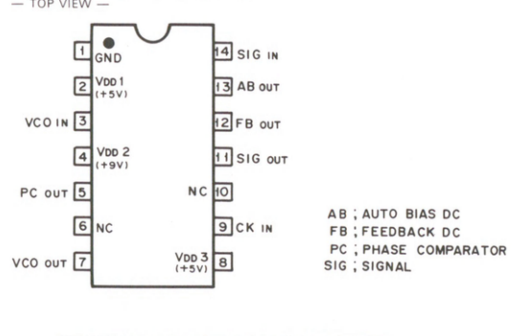
*1 ; ONE POWER → Vcc/2. TWO POWER → GND
*2 ; ONE POWER → GND. TWO POWER → VEE
*3 ; Vcc − VEE : +8 to +21V

CXL5001P (SONY)
C-MOS CCD FOR NTSC 1H DELAY LINE
— TOP VIEW —

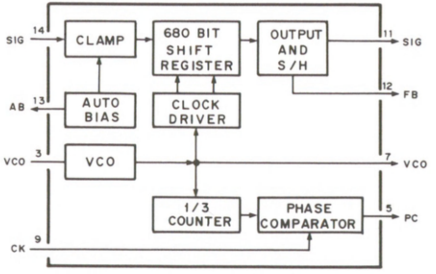




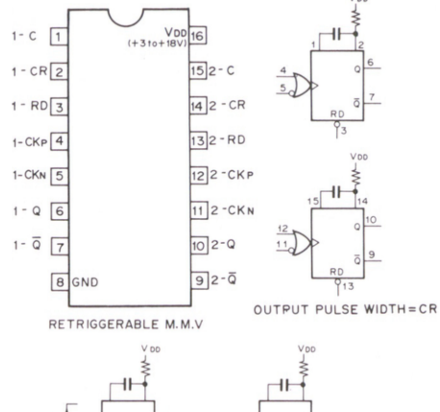
CXL5005P (SONY)
C-MOS CCD 1H DELAY LINE FOR NTSC
— TOP VIEW —



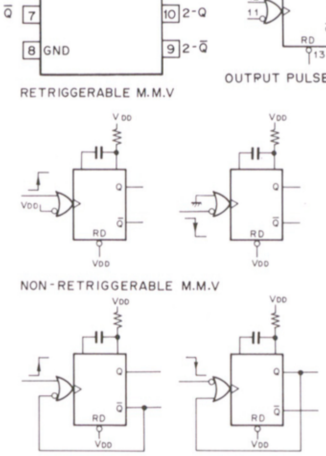
AB ; AUTO BIAS DC
FB ; FEEDBACK DC
PC ; PHASE COMPARATOR
SIG ; SIGNAL



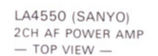
HD14538BP (HITACHI)
C-MOS DUAL RETRIGGERABLE/NON-RETRIGGERABLE MONOSTABLE MULTIVIBRATOR
— TOP VIEW —



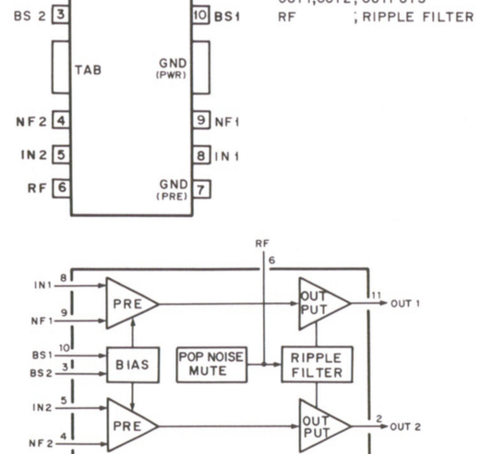
RETRIGGERABLE M.M.V



NON-RETRIGGERABLE M.M.V

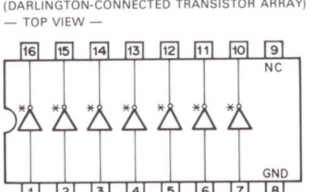


LA4550 (SANYO)
2CH AF POWER AMP
— TOP VIEW —

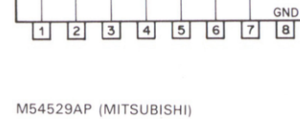


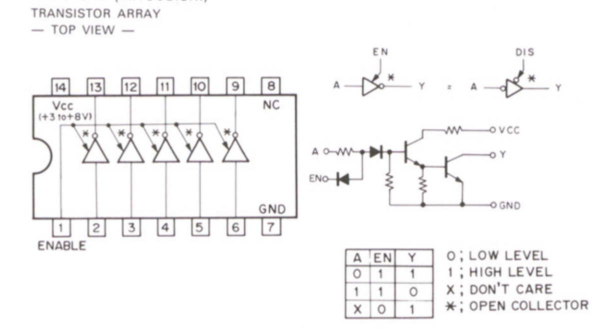
BS1, BS2 ; BOOTSTRAP CAPACITOR
IN1, IN2 ; INPUTS
NF1, NF2 ; NEGATIVE FEEDBACK CONTROL
OUT1, OUT2 ; OUTPUTS
RF ; RIPPLE FILTER

M54517P (MITSUBISHI)
INVERTER WITH OPEN-COLLECTOR
(DARLINGTON-CONNECTED TRANSISTOR ARRAY)
— TOP VIEW —



M54529AP (MITSUBISHI)
TRANSISTOR ARRAY
— TOP VIEW —

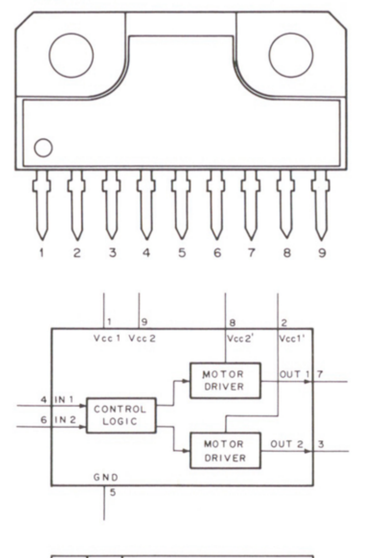


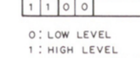


A	EN	Y
0	1	1
1	1	0
X	0	1

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
* ; OPEN COLLECTOR

M54543L (MITSUBISHI)
BI-DIRECTIONAL MOTOR DRIVER
— SIDE VIEW —

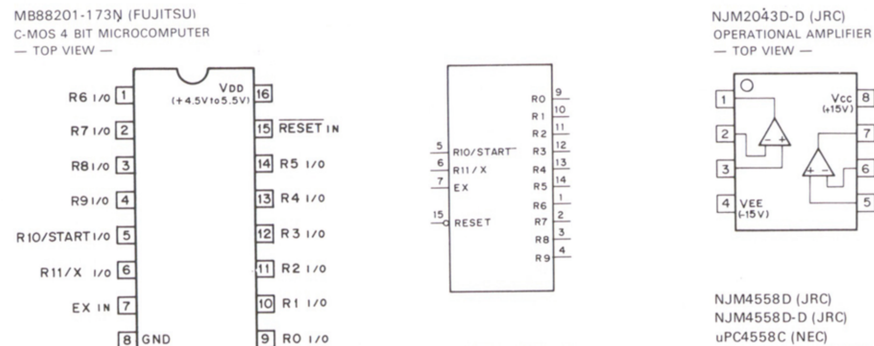


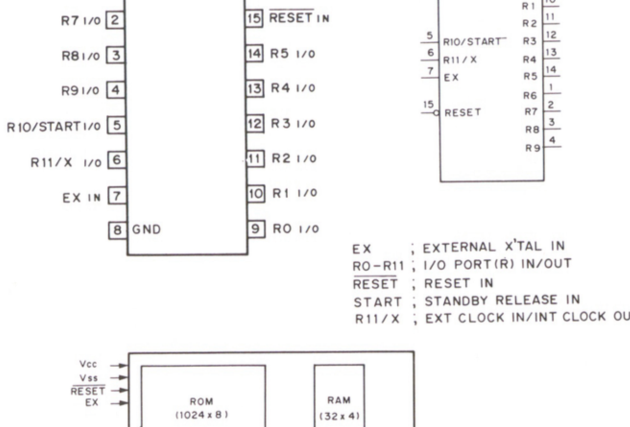


IN 1	IN 2	OUT 1	OUT 2	MODE
0	0	Z	Z	NO OPERATION
1	0	1	0	ROTATION
0	1	0	1	REVERSE ROTATION
1	1	0	0	BRAKE

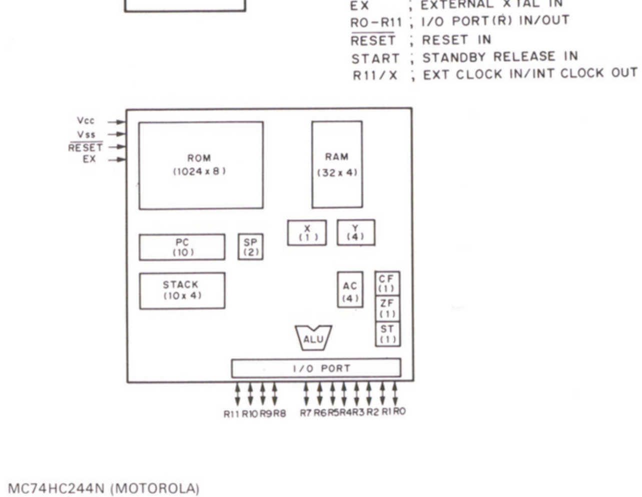
0 : LOW LEVEL
1 : HIGH LEVEL
Z : HIGH IMPEDANCE

MB88201-173N (FUJITSU)
C-MOS 4 BIT MICROCOMPUTER
— TOP VIEW —

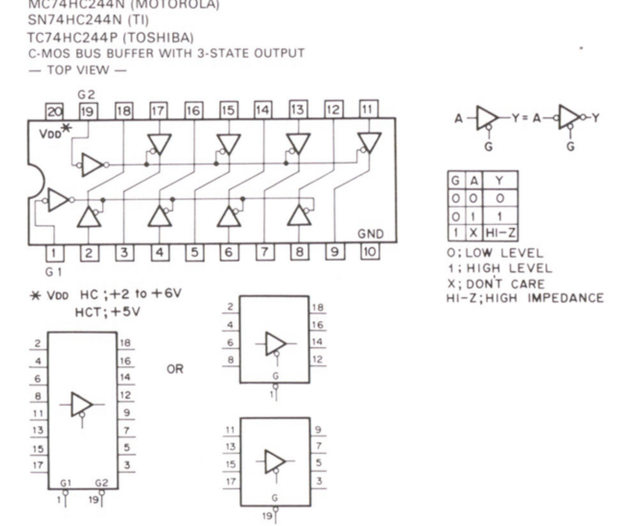




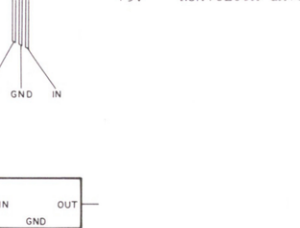
EX ; EXTERNAL X'TAL IN
R0–R11 ; I/O PORT(R) IN/OUT
RESET ; RESET IN
START ; STANDBY RELEASE IN
R11/X ; EXT CLOCK IN/INT CLOCK OUT



MC74HC244N (MOTOROLA)
SN74HC244N (TI)
TC74HC244P (TOSHIBA)
C-MOS BUS BUFFER WITH 3-STATE OUTPUT
— TOP VIEW —



* VDD HC ; +2 to +6V
HCT ; +5V

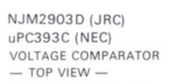


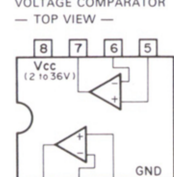
G	A	Y
0	0	0
0	1	1
1	X	HI-Z

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
HI-Z ; HIGH IMPEDANCE

NJM2043D-D (JRC)
OPERATIONAL AMPLIFIER
— TOP VIEW —

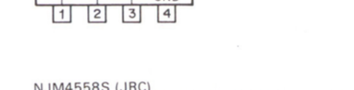
NJM2903D (JRC)
uPC393C (NEC)
VOLTAGE COMPARATOR
— TOP VIEW —

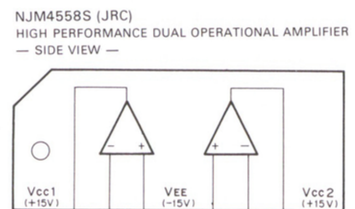




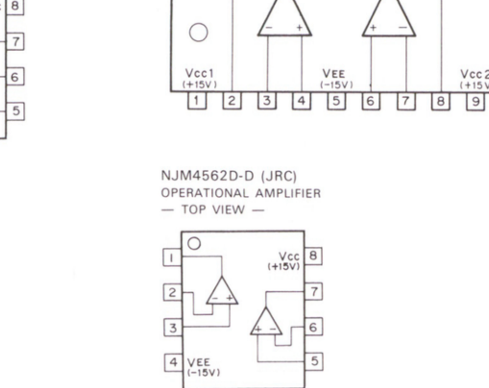
NJM4558D (JRC)
NJM4558D-D (JRC)
uPC4558C (NEC)
OPERATIONAL AMPLIFIER
— TOP VIEW —

NJM4558S (JRC)
HIGH PERFORMANCE DUAL OPERATIONAL AMPLIFIER
— SIDE VIEW —





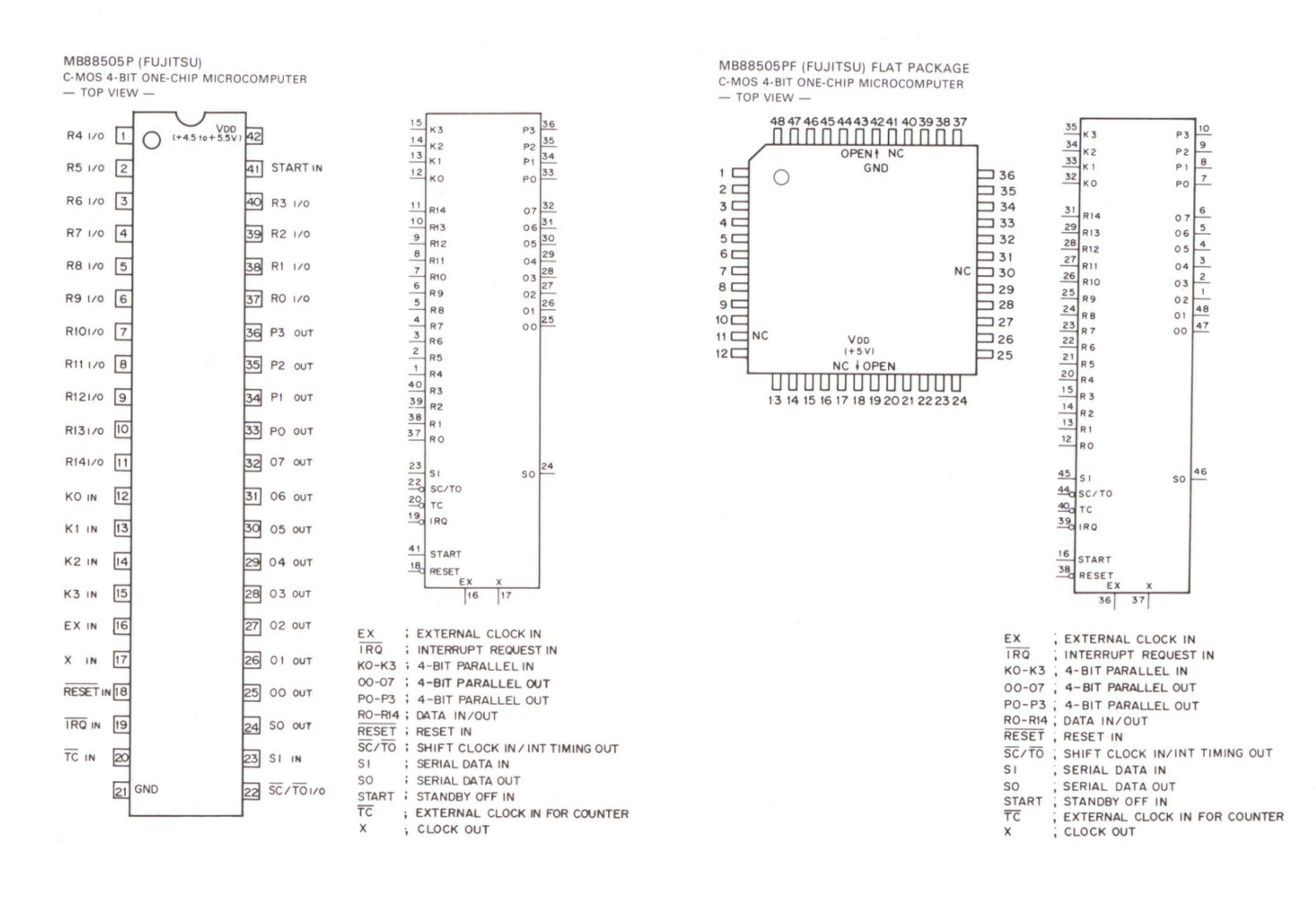
NJM4562D-D (JRC)
OPERATIONAL AMPLIFIER
— TOP VIEW —

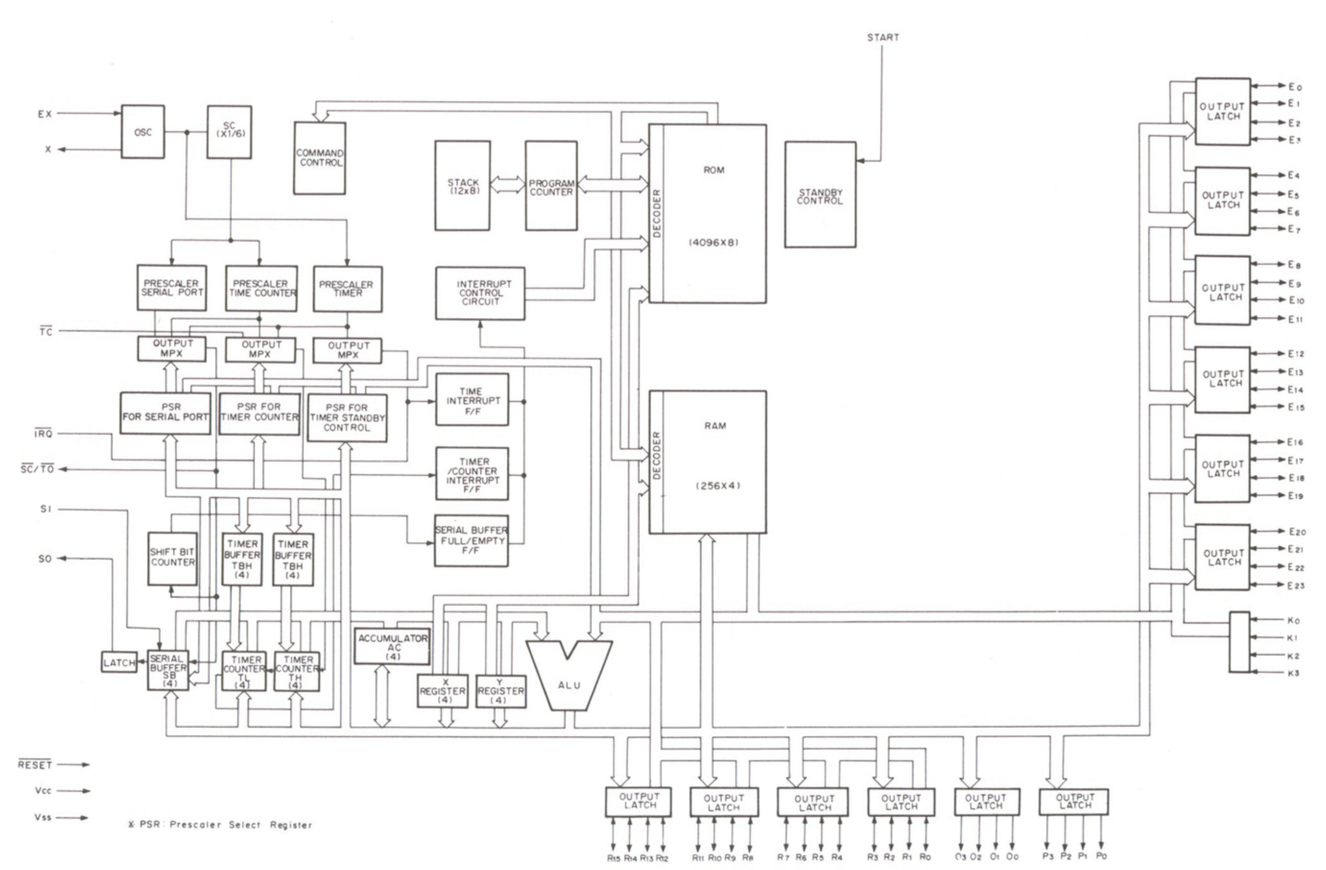


NJM78L ? ?A (NEC)
POSITIVE VOLTAGE REGULATOR (100mA)

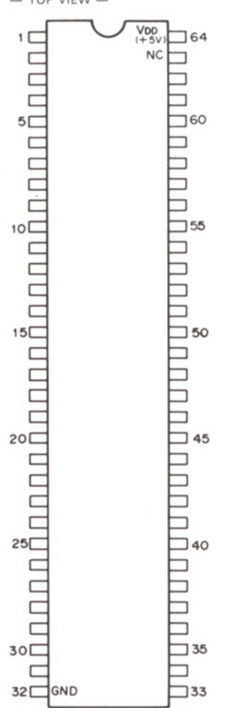
OUTPUT VOLTAGE					
	NJM78L??A	uA78L??ACL	uA78L??AWV	uPC78L??J	AN78L??
+5V	NJM78L05A	uA78L05ACL	uA78L05AWV	uPC78L05J	AN78L05
+9V	NJM78L09A	uA78L09ACL	uA78L09AWV	---------	AN78L09

OUT GND IN



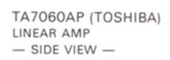


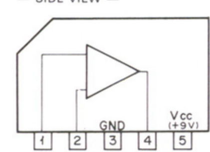
MB88525P (FUJITSU)
C-MOS 4-BIT ONE-CHIP MICROCOMPUTER
— TOP VIEW —



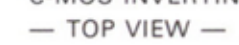
PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL
1	O	O	R0	33		O	SO
2	O	O	R1	34	O	O	E0
3	O	O	R2	35	O	O	E1
4	O	O	R3	36	O	O	E2
5	O	O	R4	37	O	O	E3
6	O	O	R5	38	O	O	E4
7	O	O	R6	39	O	O	E5
8	O	O	R7	40	O	O	E6
9	O	O	R8	41	O	O	E7
10	O	O	R9	42	O	O	E8
11	O	O	R10	43	O	O	E9
12	O	O	R11	44	O	O	E10
13	O	O	R12	45	O	O	E11
14	O	O	R13	46	O	O	E12
15	O	O	R14	47	O	O	E13
16	O	O	R15	48	O	O	E14
17	O		K0	49	O	O	E15
18	O		K1	50	O	O	E16
19	O		K2	51	O	O	E17
20	O		K3	52	O	O	E18
21		O	O0	53	O	O	E19
22		O	O1	54	O	O	E20
23		O	O2	55	O	O	E21
24		O	O3	56	O	O	E22
25	O		EX	57	O	O	E23
26		O	X	58		O	P0
27	O	O	$\overline{RESET}$	59		O	P1
28	O		$\overline{IRQ}$	60		O	P2
29	O		$\overline{TC}$	61		O	P3
30	O	O	$\overline{SC}/\overline{TO}$	62	O		START
31	O		SI	63	—	—	———
32			GND	64			VDD

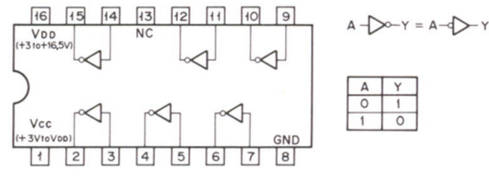
E0–E23 ; I/O PORT (E) IN/OUT
EX ; EXTERNAL CLOCK IN
$\overline{IRQ}$; EXTERNAL INTERRUPT REQUEST IN
K0–K3 ; INPUT PORT (K) IN
O0–O3 ; OUTPUT PORT (O) OUT
P0–P3 ; OUTPUT PORT (P) OUT
R0–R15 ; I/O PORT (R) IN/OUT
$\overline{RESET}$; RESET IN
$\overline{SC}/\overline{TO}$; SHIFT CLOCK IN/TIMING OUT
SI ; SERIAL DATA IN
START ; STANDBY RELEASE IN
SO ; SERAL DATA OUT
$\overline{TC}$; EXTERNAL CLOCK IN
X ; CLOCK OUT





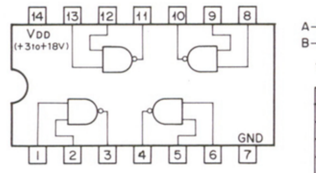
TC4009UBP (TOSHIBA)
C-MOS INVERTING TYPE BUFFER/CONVERTER (TO TTL LEVEL)

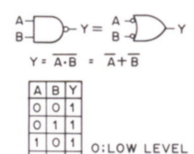




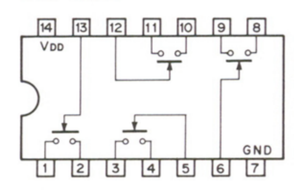
A	Y
0	1
1	0

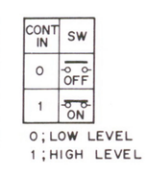
TC4011BP (TOSHIBA)
C-MOS 2-INPUT NAND GATE
— TOP VIEW —



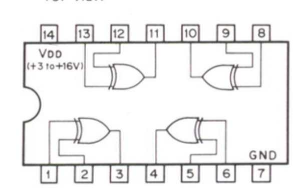


TC4016BPHB (TOSHIBA)
C-MOS BILATERAL SWITCH
— TOP VIEW —



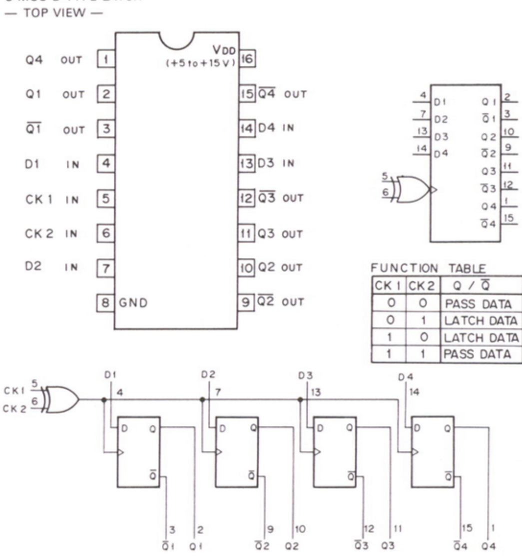


TC4030BP (TOSHIBA)
TC4030BPHB (TOSHIBA)
uPD4030BC (NEC)
C-MOS EXCLUSIVE OR GATE
— TOP VIEW —

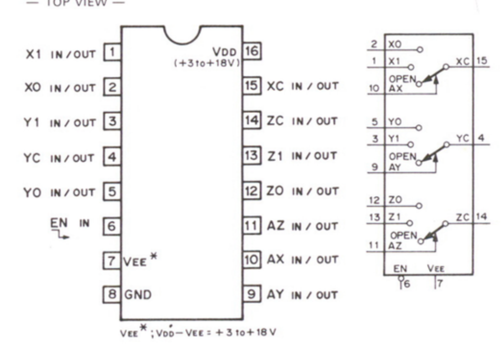




TC4042BP (TOSHIBA)
C-MOS D-TYPE LATCH
— TOP VIEW —



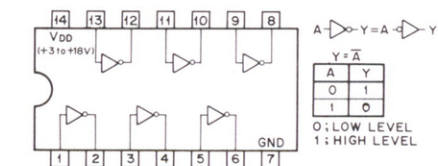
TC4053BPHB (TOSHIBA)
uPD4053BC (NEC)
C-MOS 2-CHANNEL MULTIPLEXER/DEMULTIPLEXER
— TOP VIEW —



0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE.

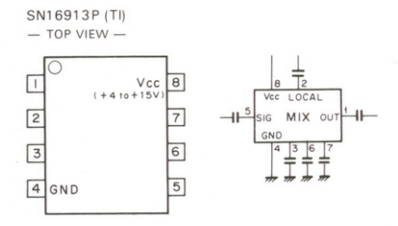
CONT. INPUTS		ON
EN	A (X,Y,Z,)	CHANNEL
0	0	0
0	1	1
1	X	OPEN

TC4069UBF (TOSHIBA) FLAT PACKAGE
TC4069UBP (TOSHIBA)
C-MOS INVERTER
— TOP VIEW —

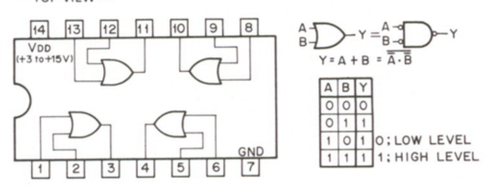




SN16913P (TI)
— TOP VIEW —

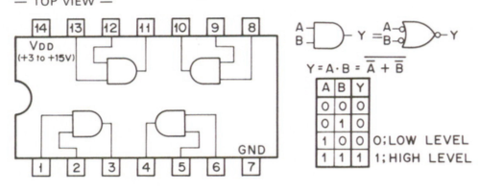


TC4071BP (TOSHIBA)
C-MOS 2-INPUT OR GATE
— TOP VIEW —



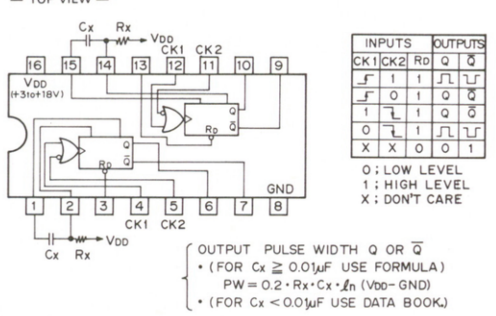
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	1

TC4081BP (TOSHIBA)
C-MOS 2-INPUT AND GATE
— TOP VIEW —



A	B	Y
0	0	0
0	1	0
1	0	0
1	1	1

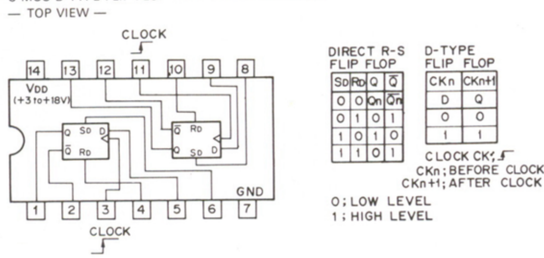
TC4528BFHB (TOSHIBA) FLAT PACKAGE
C-MOS RETRIGGERABLE/RESETTABLE MMV
— TOP VIEW —



INPUTS			OUTPUTS	
CK1	CK2	RD	Q	$\bar{Q}$
↑	1	1	⎍	⎍ (inverted)
↑	0	1	Q	$\bar{Q}$
1	↓	1	Q	$\bar{Q}$
0	↓	1	⎍	⎍ (inverted)
X	X	0	0	1

OUTPUT PULSE WIDTH Q OR $\bar{Q}$
- (FOR $Cx \geq 0.01\mu F$ USE FORMULA)
  $PW = 0.2 \cdot Rx \cdot Cx \cdot \ln(V_{DD} - GND)$
- (FOR $Cx < 0.01\mu F$ USE DATA BOOK.)

TC504013BP (TOSHIBA)
C-MOS D-TYPE FLIP FLOP WITH DIRECT SET/RESET
— TOP VIEW —



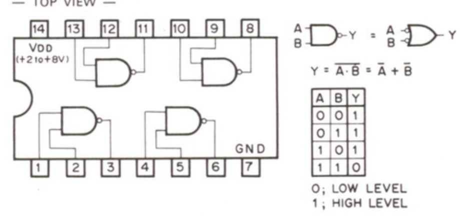
DIRECT R-S FLIP FLOP

SD	RD	Q	$\bar{Q}$
0	0	Qn	$\bar{Q}n$
0	1	0	1
1	0	1	0
1	1	0	1

D-TYPE FLIP FLOP

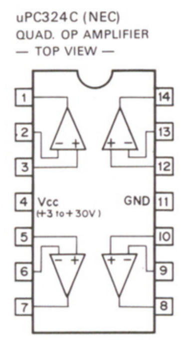
CKn	CKn+1
D	Q
0	0
1	1

TC40H000P (TOSHIBA)
C-MOS 2-INPUT NAND GATE
— TOP VIEW —

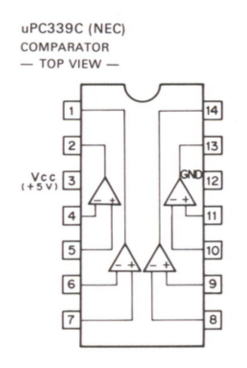


A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

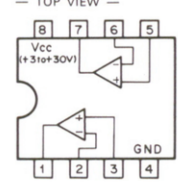
uPC324C (NEC)
QUAD. OP AMPLIFIER
— TOP VIEW —

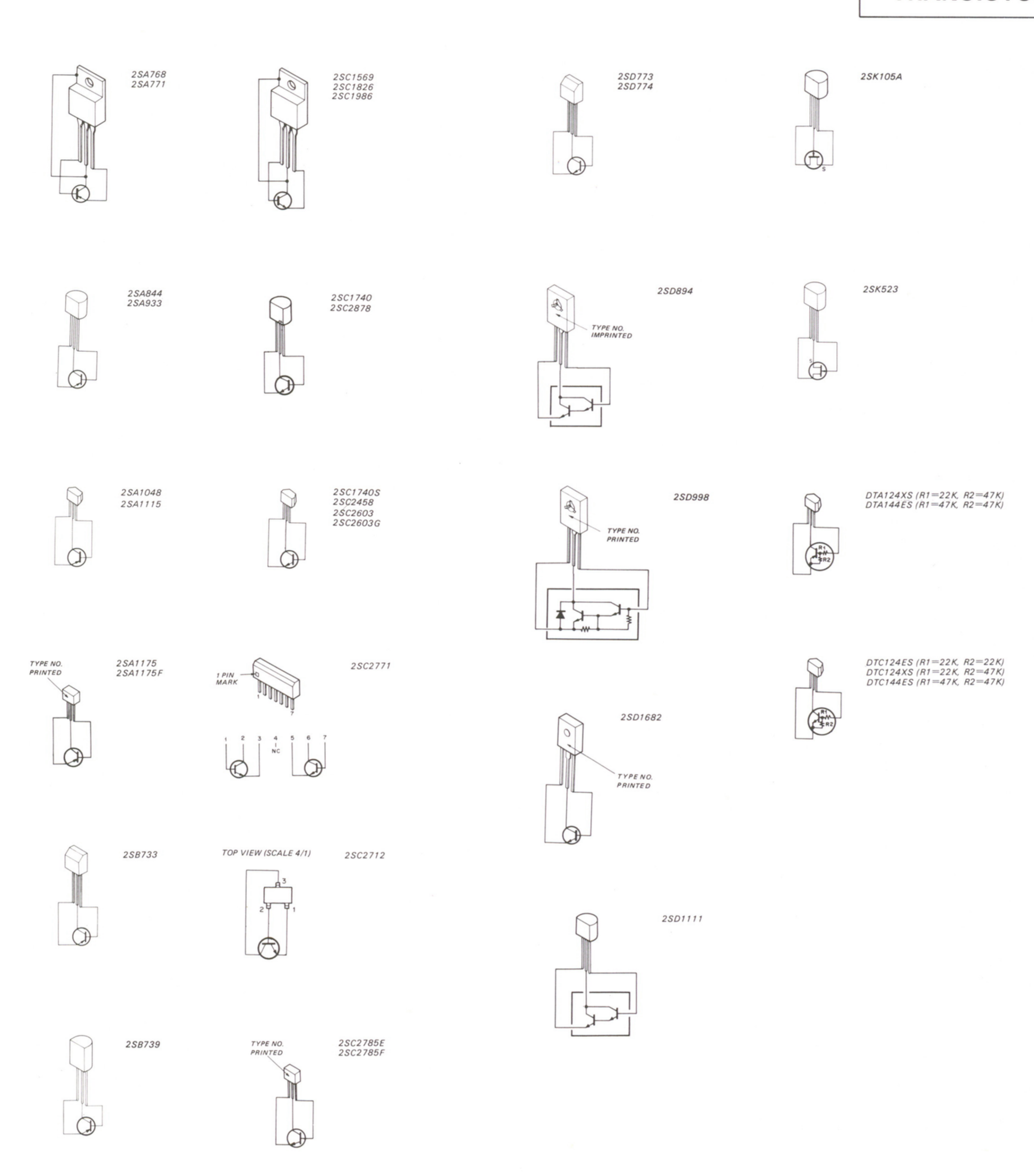


uPC339C (NEC)
COMPARATOR
— TOP VIEW —



uPC358C (NEC)
DUAL OPERATIONAL AMPLIFIERS
— TOP VIEW —

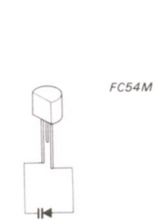



2SA768
2SA771
2SC1569
2SC1826
2SC1986
2SD773
2SD774
2SK105A
2SA844
2SA933
2SC1740
2SC2878
2SD894
TYPE NO. IMPRINTED
2SK523
2SA1048
2SA1115
2SC1740S
2SC2458
2SC2603
2SC2603G
2SD998
TYPE NO. PRINTED
DTA124XS (R1=22K, R2=47K)
DTA144ES (R1=47K, R2=47K)
TYPE NO. PRINTED
2SA1175
2SA1175F
1 PIN MARK
2SC2771
NC
DTC124ES (R1=22K, R2=22K)
DTC124XS (R1=22K, R2=47K)
DTC144ES (R1=47K, R2=47K)
2SD1682
TYPE NO. PRINTED
2SB733
TOP VIEW (SCALE 4/1)
2SC2712
2SD1111
2SB739
TYPE NO. PRINTED
2SC2785E
2SC2785F

10E-2
11E2
1S1555
1S1555S
1SS119
1SS133
1SS148
ERB12-? ?
SIB01-02

GL-5HD5 ; RED

TLY255 ; YELLOW



1S2837

GP-1L52
GP-1L53

TLY123 ; YELLOW
TLUY154 ; YELLOW
TLUG154 ; GREEN

1SS97
1SS97-1
1SS99
21DQ04

RD ? ?EB ?
RD ? ?ESB ?

U05E
U05G

BR5104S ; RED

SPS102

FC54M

SECTION 14
PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

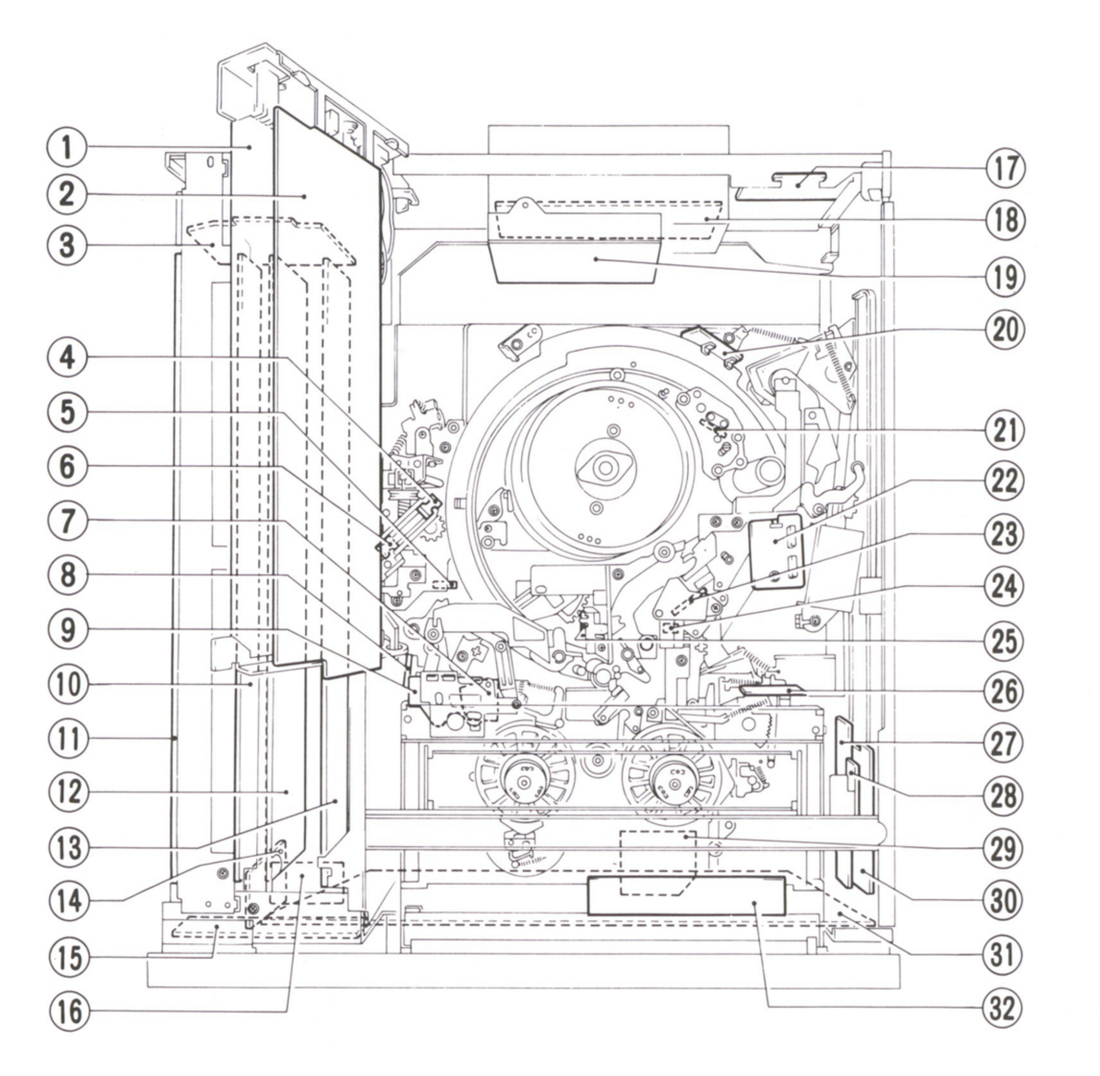
CIRCUIT FUNCTION OF THE PRINTED CIRCUIT BOARD

Circuit information is provided below.

SYSTEM	BOARD	CIRCUIT FUNCTION
VIDEO	RP-31	PB Amplifier
	VP-21	Y/C Demodulator
	VR-52	Y/C Modulator
AUDIO	AU-82	PB Amplifier
	AU-89	Dolby
	CP-112	Output Amplifier
	DUS-92	Audio CTL Head
	DUS-147	Audio CTL Head
	HP-30	Headphones
	MC-28	MIC In
	MT-29	Audio Level Meter
SERVO	EC-28	CTL Head
	DUS-92	Audio CTL Head
	DUS-147	Audio CTL Head
	PT-9	Reel Motor Driver
	SV-93	Servo System
POWER	AC-65	AC Input
	DC-31	DC Supply
	UR-14	Switching Regulator
KEY	KY-105	Function Key/Display
SYSTEM CONTROL	IF-132	33P Interface
	PD-40	Plunger Solenoids
	PD-41	Plunger Solenoids
	PH-5	Tape Beginning/End Sensor
	SY-106	System Control
OTHERS	CC-31	Cassette Compartment Driver
	CC-32	Cassette In Detector
	CC-33	Cassette Down Detector
	LM-13	Threading Motor
	LP-41	Cassette Compartment Light
	PTC-30	SP, Miss REC. KCA Detector
	PTC-33	FR Stop Detector
	PTC-34	Unthreadend Detector
	PTC-35	S/T Reel Rotation Detector
	RM-39	Reel Motor
	SE-46	Tension Regulator Detector
	TG-22	Tension Regulator LED

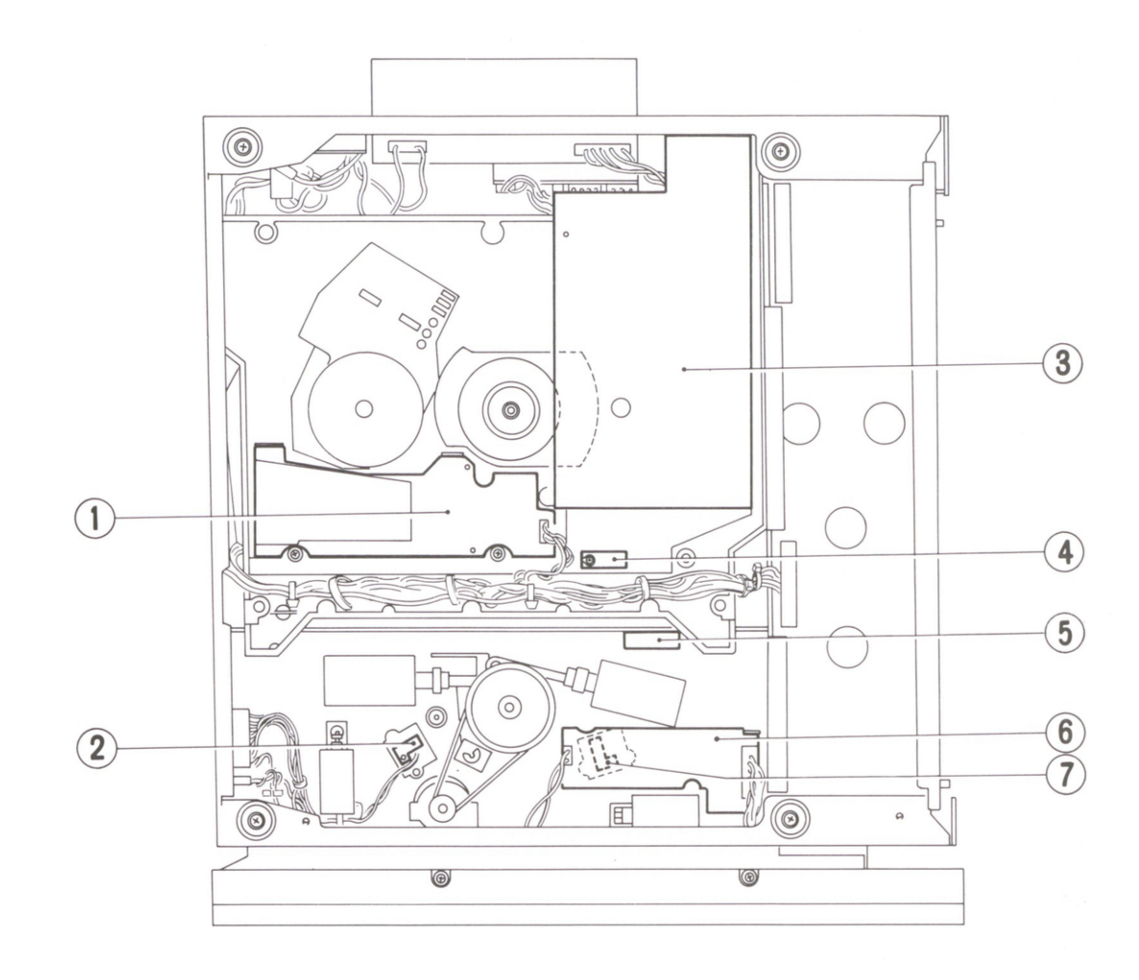
LOCATION OF THE PRINTED CIRCUIT BOARD

(TOP VIEW)


1 VP-21 Board
2 VR-52 Board
3 CP-112 Board
4 PH-5 Board
5 LM-13 Board
6 PH-5 Board
7 SE-46 Board
8 PTC-34 Board
9 PTC-30 Board
10 AU-89 Board
11 AU-82 Board
12 SV-93 Board
13 SY-106 Board
14 HP-30 Board
15 MT-29 Board
16 MC-28 Board
17 AC-65 Board
18 UR-14 Board
19 DC-31 Board
20 PTC-33 Board
21 DUS-92 Board
22 DUS-147 Board
23 EC-28 Board
24 PH-5 Board
25 PH-5 Board
26 CC-33 Board
27 CC-32 Board
28 CC-31 Board
29 RM-39 Board
30 PD-40 Board
31 KY-105 Board
32 LP-41 Board

(BOTTOM VIEW)



1 RP-31 Board
2 PTC-35 Board
3 IF-132 Board
4 PT-9 Board
5 TG-22 Board
6 PD-41 Board
7 PTC-35 Board



VP-21(1/2): Y/C DEMODULATOR
UC; S/N 10001 thru 10250
J; S/N 10001 thru 10050
VP-21(½) VP-21(½)
VP-21(½) VP-21(½)
VP-21 (1/2)
1-622-392-11
VO-9600

① IC1 20PIN 0.4Vp-p / 21PIN 0.4Vp-p / 18PIN 10Vp-p, 2V

② TP18 2.3Vp-p, V

③ RV3 CENTER 1.4Vp-p, V

④ TP4 0.9Vp-p, 2V

⑤ TP11 0.4Vp-p, H

⑥ TP19 0.19Vp-p, H

⑦ TP14 0.12Vp-p, H

⑧ TP13 0.13Vp-p, H

⑨ TP3 0.2Vp-p, 2V

⑩ TP9 2.6Vp-p, H

⑪ TP5 0.7Vp-p, H

⑫ TP6 0.4Vp-p, H

⑬ TP7 2.2Vp-p, H

⑭ TP8 70mVp-p, V

⑮ IC5 1PIN 0.84Vp-p

⑯ Q50 EMITTER 1Vp-p, H

⑰ TP21 1.4Vp-p, V

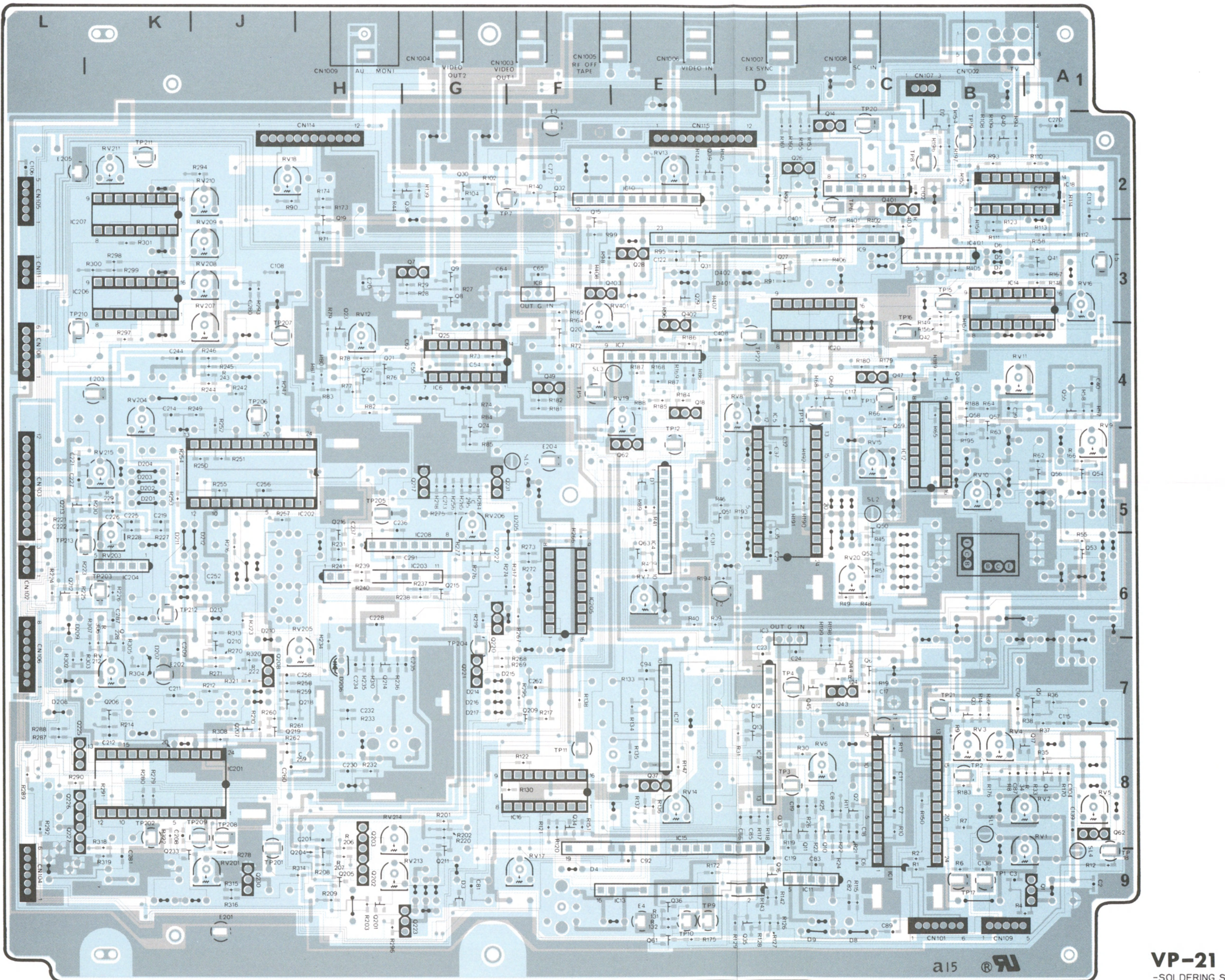
VP-21(1/2):Y/C DEMODULATOR (SOLDERING SIDE)

UC; S/N 10001 thru 10250
J; S/N 10001 thru 10050

VP-21 (1-622-392-11)-S

CN101	B-9
CN102	L-6
CN103	L-5
CN104	L-9
CN105	L-2
CN106	L-7
CN107	B-1
CN108	L-4
CN109	B-9
CN111	L-3
CN114	H-2
CN115	E-2
CN1002	B-1
CN1003	F-1
CN1004	G-1
CN1005	E-1
CN1006	E-1
CN1007	D-1
CN1008	C-1
CN1009	H-1
D1	E-5
D2	B-2
D3	G-9
D4	F-9
D5	B-3
D6	B-3
D7	B-3
D8	C-9
D9	D-9
D201	K-5
D202	K-5
D203	K-5
D204	K-5
D205	G-6
D206	H-7
D207	K-7
D208	L-7
D209	L-6
D210	J-6
D211	K-6
D212	K-6
D213	J-6
D214	G-7
D215	G-7
D216	G-7
D217	G-7
D401	D-3
D402	D-3
E1	C-7
E2	E-6
E3	F-2
E4	E-9
E5	A-3
E201	J-9
E202	K-7
E203	K-4
E204	F-5
E205	L-2
IC1	C-8
IC2	D-7
IC3	D-6
IC4	E-5
IC5	D-5
IC6	G-4
IC7	E-4
IC8	F-3
IC9	D-3
IC10	E-2
IC11	D-9
IC12	B-5
IC13	E-9
IC14	B-3
IC15	E-8
IC16	F-8
IC17	E-7
IC18	B-2
IC19	C-2
IC20	D-3
IC201	K-8
IC202	J-5
IC203	H-6
IC204	K-6
IC205	F-6
IC206	K-3
IC207	K-2
IC208	G-6
IC401	B-3
Q1	B-9
Q2	C-8
Q3	B-7
Q4	A-8
Q5	A-7
Q6	C-7
Q7	G-3
Q8	G-3
Q9	G-3
Q10	C-8
Q11	D-8
Q12	D-7
Q13	D-7
Q14	C-2
Q15	F-3
Q16	D-9
Q17	B-8
Q18	E-4
Q19	H-2
Q20	F-4
Q21	H-4
Q22	H-4
Q23	H-4
Q24	G-5
Q25	G-4
Q26	D-2
Q27	D-3
Q28	E-3
Q29	E-3
Q30	G-2
Q31	E-3
Q32	F-2
Q33	D-8
Q34	F-8
Q35	D-9
Q36	E-9
Q37	E-8
Q38	G-2
Q39	E-2
Q40	B-2
Q41	A-3
Q42	B-4
Q43	C-7
Q44	C-7
Q45	D-7
Q47	C-4
Q48	B-4
Q49	F-4
Q50	C-6
Q51	E-5
Q52	C-6
Q53	A-6
Q54	A-5
Q55	A-4
Q56	A-5
Q57	B-4
Q58	B-4
Q59	C-5
Q60	C-4
Q61	E-9
Q62	A-8
Q62	E-5
Q63	E-6
Q201	H-9
Q202	H-9
Q203	H-8
Q204	H-9
Q205	H-9
Q206	K-7
Q207	J-7
Q208	J-7
Q209	F-7
Q210	J-7
Q211	G-9
Q212	L-6
Q213	L-5
Q214	H-7
Q215	G-6
Q216	H-5
Q217	G-5
Q218	J-7
Q219	J-7
Q220	G-6
Q221	G-7
Q222	G-6
Q223	H-9
Q225	L-8
Q226	L-8
Q227	L-8
Q228	K-7
Q230	J-9
Q231	G-5
Q233	K-9
Q401	C-2
Q402	E-4
Q403	F-3
RV1	B-9
RV2	B-8
RV3	B-8
RV4	B-8
RV5	A-8
RV6	D-8
RV7	E-6
RV8	D-4
RV9	A-5
RV10	B-5
RV11	B-4
RV12	H-4
RV13	E-2
RV14	E-8
RV15	C-5
RV16	A-3
RV17	F-9
RV18	J-2
RV19	E-5
RV20	C-6
RV201	J-9
RV203	K-6
RV204	K-4
RV205	J-7
RV206	G-6
RV207	J-4
RV208	J-3
RV209	J-3
RV210	J-2
RV211	K-2
RV212	K-7
RV213	H-9
RV214	H-9
RV215	K-5
RV401	F-4
SL1	B-8
SL2	C-5
SL3	F-4
SL4	A-9
SL5	F-5
TP1	B-9
TP2	B-8
TP3	D-8
TP4	D-7
TP5	F-4
TP6	C-2
TP7	G-2
TP8	B-2
TP9	E-9
TP10	E-9
TP11	F-8
TP12	E-5
TP13	C-4
TP14	D-4
TP15	B-3
TP16	C-4
TP17	B-9
TP18	A-9
TP19	B-2
TP20	C-2
TP21	B-7
TP22	D-4
TP201	J-8
TP202	K-8
TP203	K-6
TP204	G-7
TP205	H-5
TP206	J-4
TP207	J-4
TP208	J-8
TP209	K-8
TP210	L-4
TP211	K-2
TP212	K-6
TP213	L-6

VP-21(½) VP-21(½)



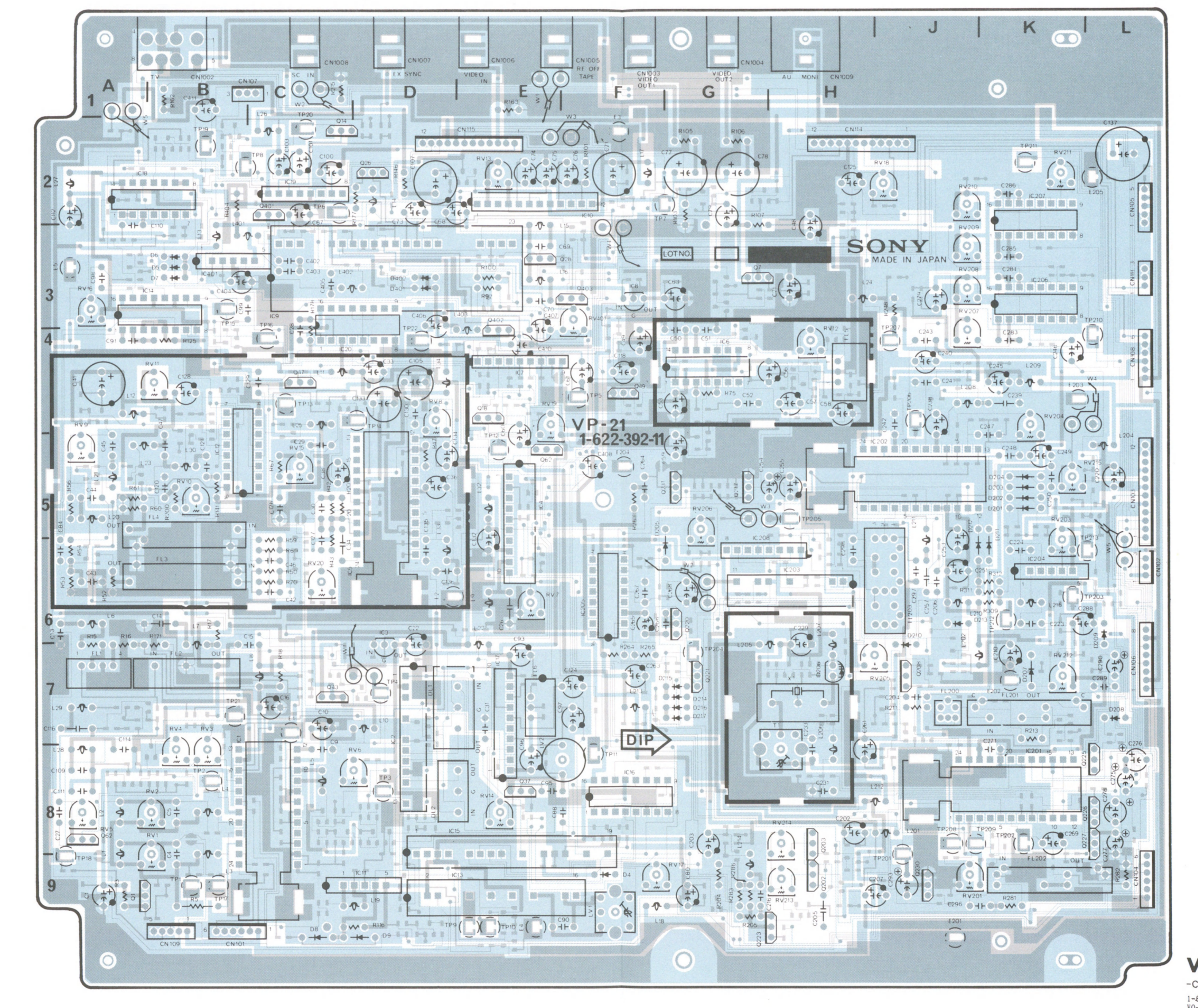
VP-21
-SOLDERING SIDE-
1-622-392-11
VO-9600

VP-21(1/2):Y/C DEMODULATOR (COMPONENT SIDE)

UC; S/N 10001 thru 10250
J; S/N 10001 thru 10050

VP-21 (1-622-392-11)-C

CN101	B-9	E201	J-9	Q26	D-2	RV214	H-9
CN102	L-6	E202	K-7	Q28	E-3	RV215	K-5
CN103	L-5	E203	K-4	Q37	E-8	RV401	F-3
CN104	L-9	E204	F-5	Q43	C-7		
CN105	L-2	E205	L-2	Q47	C-4	TP1	B-9
CN106	L-7			Q49	F-4	TP2	B-8
CN107	B-1	FL1	A-7	Q62	E-5	TP3	D-8
CN108	L-4	FL2	B-7	Q202	H-9	TP4	D-7
CN109	B-9	FL3	B-6	Q203	H-9	TP5	F-4
CN111	L-3	FL4	B-5	Q208	J-7	TP6	C-2
CN114	H-2	FL5	H-4	Q217	G-5	TP7	F-2
CN115	E-2	FL6	E-7	Q220	G-6	TP8	B-2
CN1002	B-1	FL200	J-7	Q221	G-7	TP9	E-9
CN1003	F-1	FL201	K-7	Q223	G-9	TP10	E-9
CN1004	G-1	FL202	K-9	Q225	L-8	TP11	F-8
CN1005	E-1	FL203	J-6	Q226	L-8	TP12	E-5
CN1006	E-1	FL-201	K-7	Q227	L-8	TP13	C-4
CN1007	D-1			Q230	J-9	TP14	D-4
CN1008	C-1	IC1	C-8	Q231	G-5	TP15	B-3
CN1009	H-1	IC2	D-7	Q401	C-2	TP16	C-4
		IC3	D-7	Q402	E-4	TP17	B-9
D4	F-9	IC4	E-5	Q403	F-3	TP18	A-9
D5	B-3	IC5	D-5			TP19	B-2
D6	B-3	IC6	G-4	RV1	A-9	TP20	C-2
D7	B-3	IC7	E-4	RV2	A-8	TP21	B-7
D8	C-9	IC8	F-3	RV3	B-8	TP22	D-4
D9	D-9	IC9	D-3	RV4	B-8	TP201	J-9
D201	K-5	IC10	E-2	RV5	A-8	TP202	K-9
D202	K-5	IC11	C-9	RV6	C-8	TP203	K-6
D203	K-5	IC12	B-5	RV7	E-6	TP204	G-7
D204	K-5	IC13	E-9	RV8	D-4	TP205	H-5
D205	F-6	IC14	A-3	RV9	A-5	TP206	J-4
D206	H-7	IC15	E-9	RV10	B-5	TP207	J-4
D207	K-7	IC16	F-8	RV11	B-4	TP208	J-9
D208	L-7	IC17	E-7	RV12	H-4	TP209	J-9
D209	L-7	IC18	A-2	RV13	E-2	TP210	L-4
D210	J-7	IC19	C-2	RV14	E-8	TP211	K-2
D211	K-6	IC20	D-3	RV15	C-5	TP212	K-6
D212	J-6	IC201	K-8	RV16	A-3	TP213	K-6
D213	J-6	IC202	J-5	RV17	F-9		
D214	G-7	IC203	H-6	RV18	J-2	X1	H-7
D215	G-7	IC204	K-6	RV19	E-5	T1	H-8
D216	G-7	IC205	F-6	RV20	C-6		
D217	G-7	IC206	K-3	RV201	J-9		
D401	D-3	IC207	K-3	RV203	K-6		
D402	D-3	IC208	G-6	RV204	K-5		
		IC401	B-3	RV205	H-7		
DL1	D-7			RV206	G-6		
DL2	D-8	LV1	F-9	RV207	J-4		
		LV2	E-8	RV208	J-3		
E1	C-7			RV209	J-3		
E2	D-6	Q1	A-9	RV210	J-2		
E3	F-2	Q7	G-3	RV211	K-2		
E4	E-9	Q14	C-2	RV212	K-7		
E5	A-3	Q18	E-4	RV213	H-9		


VP-21
-COMPONENT SIDE-
1-622-392-11
90-9600

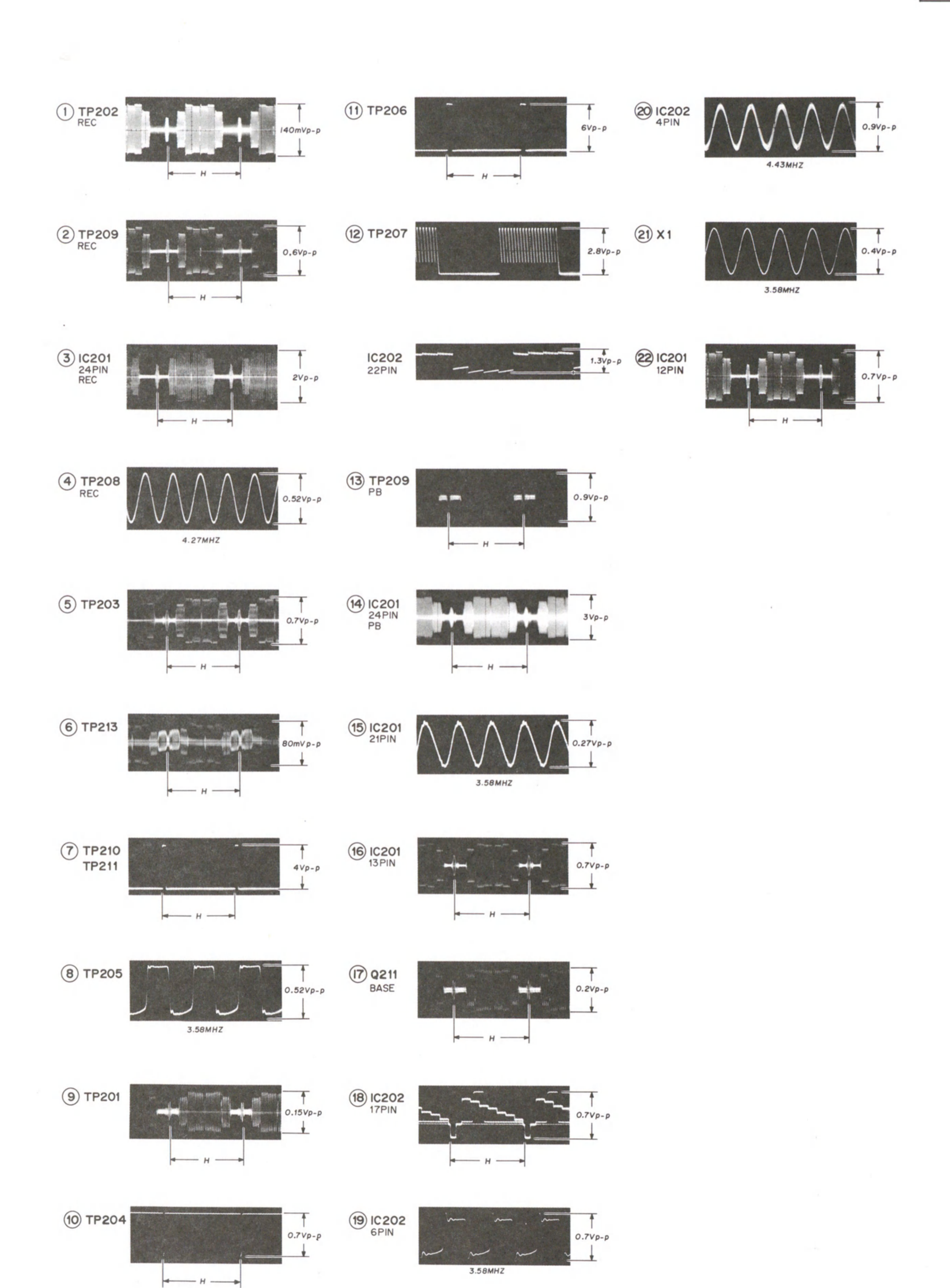
VP-21(2/2): Y/C DEMODULATOR

UC; S/N 10001 thru 10250

J; S/N 10001 thru 10050



VP-21 (2/2)



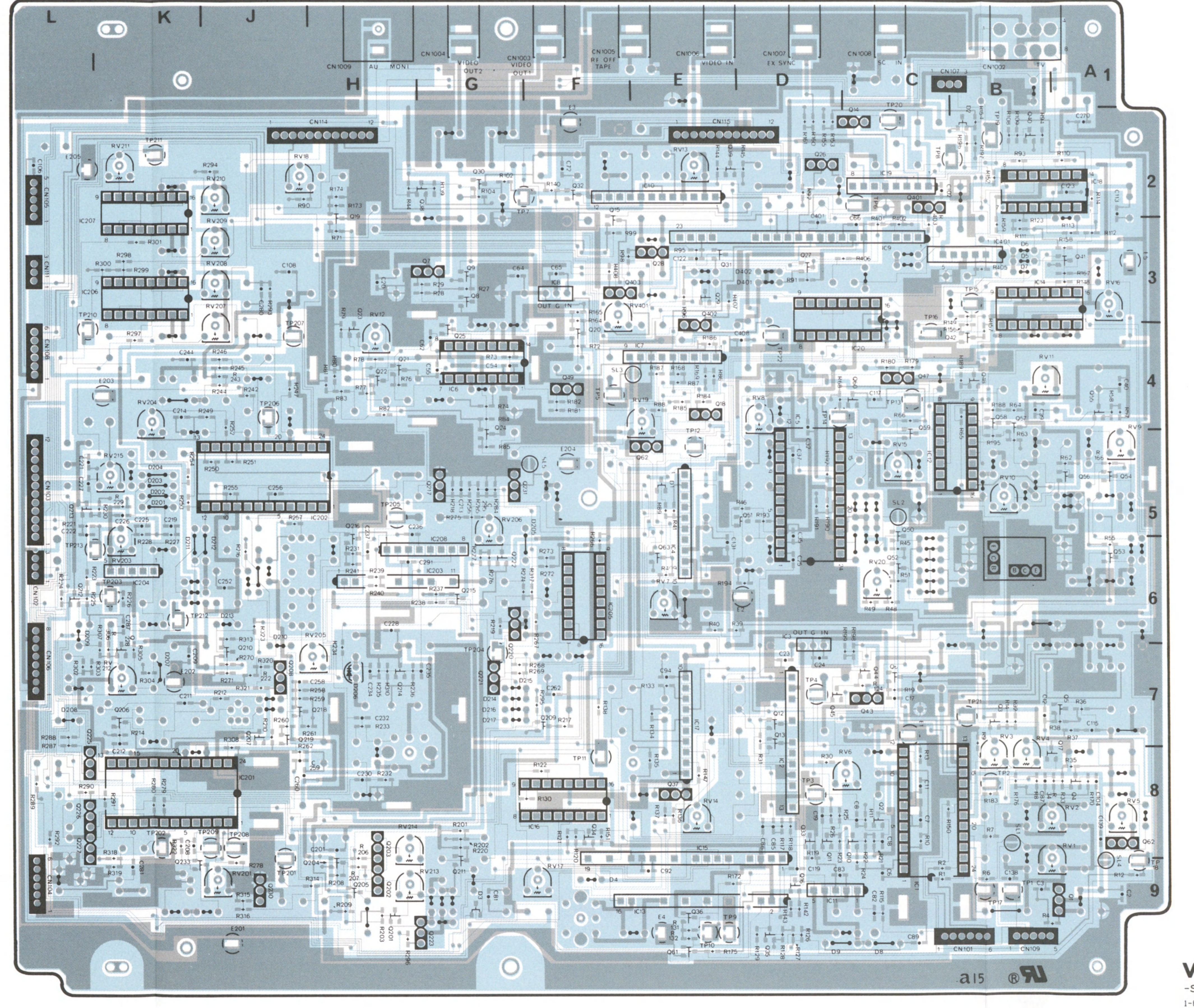
VP-21(2/2): Y/C DEMODULATOR (SOLDERING SIDE)

UC; S/N 10001 thru 10250
J; S/N 10001 thru 10050

VP-21 (1-622-392-11)-S

CN101	B-9	E201	J-9	Q20	F-4	Q212	L-6	RV214	H-9
CN102	L-6	E202	K-7	Q21	H-4	Q213	L-5	RV215	K-5
CN103	L-5	E203	K-4	Q22	H-4	Q214	H-7	RV401	F-4
CN104	L-9	E204	F-5	Q23	H-4	Q215	G-6		
CN105	L-2	E205	L-2	Q24	G-5	Q216	H-5	SL1	B-8
CN106	L-7			Q25	G-4	Q217	G-5	SL2	C-5
CN107	B-1	IC1	C-8	Q26	D-2	Q218	J-7	SL3	F-4
CN108	L-4	IC2	D-7	Q27	D-3	Q219	J-7	SL4	A-9
CN109	B-9	IC3	D-6	Q28	E-3	Q220	G-6	SL5	F-5
CN111	L-3	IC4	E-5	Q29	E-3	Q221	G-7		
CN114	H-2	IC5	D-5	Q30	G-2	Q222	G-6	TP1	B-9
CN115	E-2	IC6	G-4	Q31	E-3	Q223	H-9	TP2	B-8
CN1002	B-1	IC7	E-4	Q32	F-2	Q225	L-8	TP3	D-8
CN1003	F-1	IC8	F-3	Q33	D-8	Q226	L-8	TP4	D-7
CN1004	G-1	IC9	D-3	Q34	F-8	Q227	L-8	TP5	F-4
CN1005	E-1	IC10	E-2	Q35	D-9	Q228	K-7	TP6	C-2
CN1006	E-1	IC11	D-9	Q36	E-9	Q230	J-9	TP7	G-2
CN1007	D-1	IC12	B-5	Q37	E-8	Q231	G-5	TP8	B-2
CN1008	C-1	IC13	E-9	Q38	G-2	Q233	K-9	TP9	E-9
CN1009	H-1	IC14	B-3	Q39	E-2	Q401	C-2	TP10	E-9
		IC15	E-8	Q40	B-2	Q402	E-4	TP11	F-8
D1	E-5	IC16	F-8	Q41	A-3	Q403	F-3	TP12	E-5
D2	B-2	IC17	E-7	Q42	B-4			TP13	C-4
D3	G-9	IC18	B-2	Q43	C-7	RV1	B-9	TP14	D-4
D4	F-9	IC19	C-2	Q44	C-7	RV2	B-8	TP15	B-3
D5	B-3	IC20	D-3	Q45	D-7	RV3	B-8	TP16	C-4
D6	B-3	IC201	K-8	Q47	C-4	RV4	B-8	TP17	B-9
D7	B-3	IC202	J-5	Q48	B-4	RV5	A-8	TP18	A-9
D8	C-9	IC203	H-6	Q49	F-4	RV6	D-8	TP19	B-2
D9	D-9	IC204	K-6	Q50	C-6	RV7	E-6	TP20	C-2
D201	K-5	IC205	F-6	Q51	E-5	RV8	D-4	TP21	B-7
D202	K-5	IC206	K-3	Q52	C-6	RV9	A-5	TP22	D-4
D203	K-5	IC207	K-2	Q53	A-6	RV10	B-5	TP201	J-8
D204	K-5	IC208	G-6	Q54	A-5	RV11	B-4	TP202	K-8
D205	G-6	IC401	B-3	Q55	A-4	RV12	H-4	TP203	K-6
D206	H-7			Q56	A-5	RV13	E-2	TP204	G-7
D207	K-7	Q1	B-9	Q57	B-4	RV14	E-8	TP205	H-5
D208	L-7	Q2	C-8	Q58	B-4	RV15	C-5	TP206	J-4
D209	L-6	Q3	B-7	Q59	C-5	RV16	A-3	TP207	J-4
D210	J-6	Q4	A-8	Q60	C-4	RV17	F-9	TP208	J-8
D211	K-6	Q5	A-7	Q61	E-9	RV18	J-2	TP209	K-8
D212	K-6	Q6	C-7	Q62	A-8	RV19	E-5	TP210	L-4
D213	J-6	Q7	G-3	Q62	E-5	RV20	C-6	TP211	K-2
D214	G-7	Q8	G-3	Q63	E-6	RV201	J-9	TP212	K-6
D215	G-7	Q9	G-3	Q201	H-9	RV203	K-6	TP213	L-6
D216	G-7	Q10	C-8	Q202	H-9	RV204	K-4		
D217	G-7	Q11	D-8	Q203	H-8	RV205	J-7		
D401	D-3	Q12	D-7	Q204	H-9	RV206	G-6		
D402	D-3	Q13	D-7	Q205	H-9	RV207	J-4		
		Q14	C-2	Q206	K-7	RV208	J-3		
E1	C-7	Q15	F-3	Q207	J-7	RV209	J-3		
E2	E-6	Q16	D-9	Q208	J-7	RV210	J-2		
E3	F-2	Q17	B-8	Q209	F-7	RV211	K-2		
E4	E-9	Q18	E-4	Q210	J-7	RV212	K-7		
E5	A-3	Q19	H-2	Q211	G-9	RV213	H-9		

VP-21(2/2) VP-21(2/2)



VP-21
-SOLDERING SIDE-
1-622-392-11
VO-9600

VP-21(2/2): Y/C DEMODULATOR (COMPONENT SIDE)

UC; S/N 10001 thru 10250
J; S/N 10001 thru 10050

VP-21 (1-622-392-11)-C

CN101	B-9	E201	J-9	Q26	D-2	RV214	H-9
CN102	L-6	E202	K-7	Q28	E-3	RV215	K-5
CN103	L-5	E203	K-4	Q37	E-8	RV401	F-3
CN104	L-9	E204	F-5	Q43	C-7		
CN105	L-2	E205	L-2	Q47	C-4	TP1	B-9
CN106	L-7			Q49	F-4	TP2	B-8
CN107	B-1	FL1	A-7	Q62	E-5	TP3	D-8
CN108	L-4	FL2	B-7	Q202	H-9	TP4	D-7
CN109	B-9	FL3	B-6	Q203	H-9	TP5	F-4
CN111	L-3	FL4	B-5	Q208	J-7	TP6	C-2
CN114	H-2	FL5	H-4	Q217	G-5	TP7	F-2
CN115	E-2	FL6	E-7	Q220	G-6	TP8	B-2
CN1002	B-1	FL200	J-7	Q221	G-7	TP9	E-9
CN1003	F-1	FL201	K-7	Q223	G-9	TP10	E-9
CN1004	G-1	FL202	K-9	Q225	L-8	TP11	F-8
CN1005	E-1	FL203	J-6	Q226	L-8	TP12	E-5
CN1006	E-1	FL-201	K-7	Q227	L-8	TP13	C-4
CN1007	D-1			Q230	J-9	TP14	D-4
CN1008	C-1	IC1	C-8	Q231	G-5	TP15	B-3
CN1009	H-1	IC2	D-7	Q401	C-2	TP16	C-4
		IC3	D-7	Q402	E-4	TP17	B-9
D4	F-9	IC4	E-5	Q403	F-3	TP18	A-9
D5	B-3	IC5	D-5			TP19	B-2
D6	B-3	IC6	G-4	RV1	A-9	TP20	C-2
D7	B-3	IC7	E-4	RV2	A-8	TP21	B-7
D8	C-9	IC8	F-3	RV3	B-8	TP22	D-4
D9	D-9	IC9	D-3	RV4	B-8	TP201	J-9
D201	K-5	IC10	E-2	RV5	A-8	TP202	K-9
D202	K-5	IC11	C-9	RV6	C-8	TP203	K-6
D203	K-5	IC12	B-5	RV7	E-6	TP204	G-7
D204	K-5	IC13	E-9	RV8	D-4	TP205	H-5
D205	F-6	IC14	A-3	RV9	A-5	TP206	J-4
D206	H-7	IC15	E-9	RV10	B-5	TP207	J-4
D207	K-7	IC16	F-8	RV11	B-4	TP208	J-9
D208	L-7	IC17	E-7	RV12	H-4	TP209	J-9
D209	L-7	IC18	A-2	RV13	E-2	TP210	L-4
D210	J-7	IC19	C-2	RV14	E-8	TP211	K-2
D211	K-6	IC20	D-3	RV15	C-5	TP212	K-6
D212	J-6	IC201	K-8	RV16	A-3	TP213	K-6
D213	J-6	IC202	J-5	RV17	F-9		
D214	G-7	IC203	H-6	RV18	J-2	X1	H-7
D215	G-7	IC204	K-6	RV19	E-5	T1	H-8
D216	G-7	IC205	F-6	RV20	C-6		
D217	G-7	IC206	K-3	RV201	J-9		
D401	D-3	IC207	K-3	RV203	K-6		
D402	D-3	IC208	G-6	RV204	K-5		
		IC401	B-3	RV205	H-7		
DL1	D-7			RV206	G-6		
DL2	D-8	LV1	F-9	RV207	J-4		
		LV2	E-8	RV208	J-3		
E1	C-7			RV209	J-3		
E2	D-6	Q1	A-9	RV210	J-2		
E3	F-2	Q7	G-3	RV211	K-2		
E4	E-9	Q14	C-2	RV212	K-7		
E5	A-3	Q18	E-4	RV213	H-9		


VP-21(2/2) VP-21(2/2)

SONY
MADE IN JAPAN

VP-21
1-622-392-11

DIP

VP-21
-COMPONENT SIDE-
1-622-392-11
VO-9600


VP-21(1/2):Y/C DEMODULATOR
UC; S/N 10251 thru 11350
J; S/N 10051 thru 10200
VP-21 (1/2)

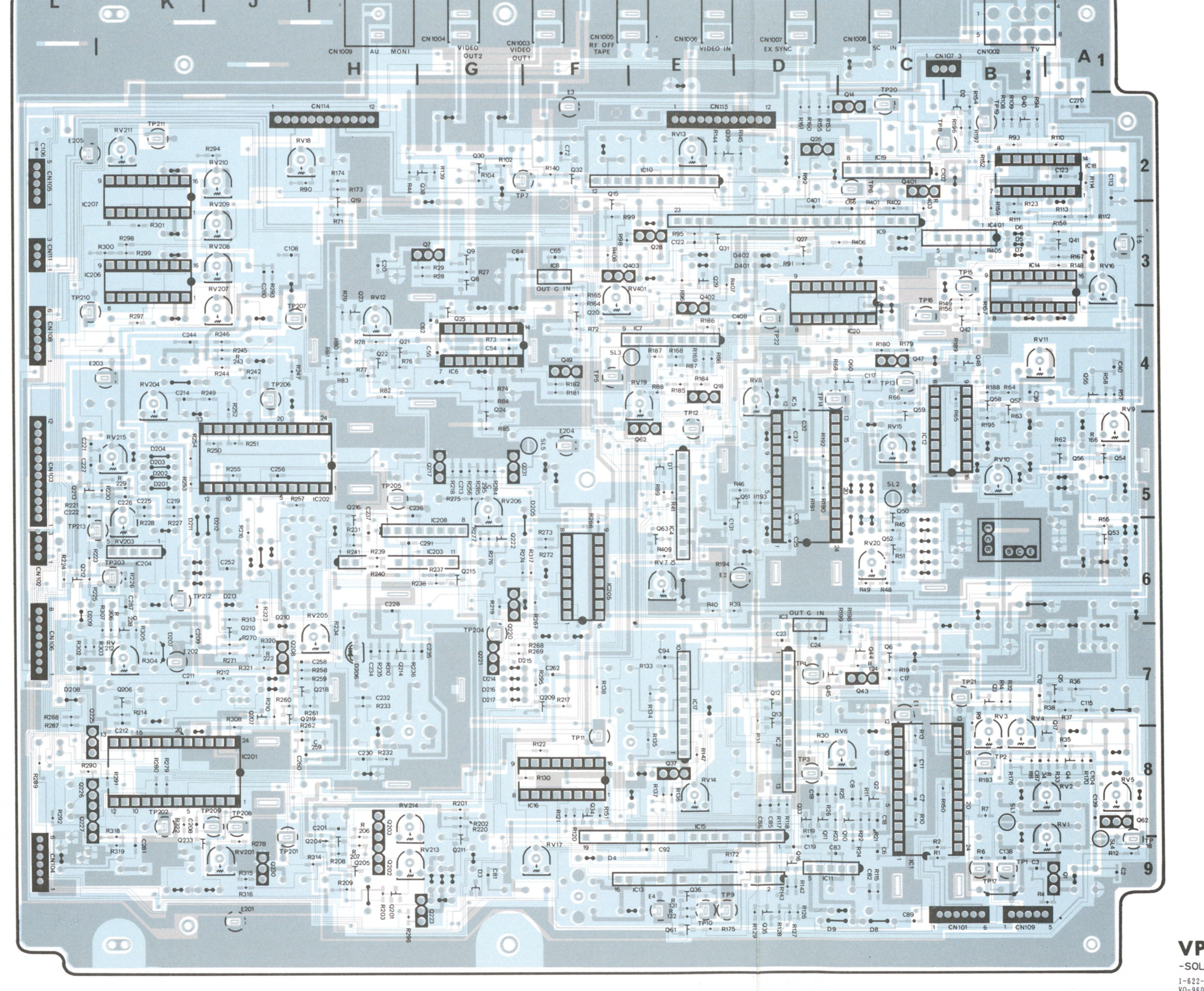
1. IC1 20PIN: 0.4Vp-p; 21PIN: 0.4Vp-p; 18PIN: 10Vp-p; 2V
2. TP18: 2.3Vp-p; V
3. RV3 CENTER: 1.4Vp-p; V
4. TP4: 0.9Vp-p; 2V
5. TP11: 0.4Vp-p; H
6. TP19: 0.19Vp-p; H
7. TP14: 0.12Vp-p; H
8. TP13: 0.13Vp-p; H
9. TP3: 0.2Vp-p; 2V
10. TP9: 2.6Vp-p; H
11. TP5: 0.7Vp-p; H
12. TP6: 0.4Vp-p; H
13. TP7: 2.2Vp-p; H
14. TP8: 70mVp-p; V
15. IC5 1PIN: 0.84Vp-p
16. Q50 EMITTER: 1Vp-p; H
17. TP21: 1.4Vp-p; V

VP-21(1/2): Y/C DEMODULATOR (SOLDERING SIDE)

UC; S/N 10251 thru 11350
J; S/N 10051 thru 10200

VP-21 (1-622-392-12)-S

CN101	B-9
CN102	L-6
CN103	L-5
CN104	L-9
CN105	L-2
CN106	L-7
CN107	B-1
CN108	L-4
CN109	B-9
CN111	L-3
CN114	H-2
CN115	E-2
CN1002	B-1
CN1003	F-1
CN1004	G-1
CN1005	F-1
CN1006	E-1
CN1007	D-1
CN1008	C-1
CN1009	H-1
D1	E-5
D2	B-2
D3	G-9
D4	F-9
D5	B-3
D6	B-3
D7	B-3
D8	C-9
D9	D-9
D201	K-5
D202	K-5
D203	K-5
D204	K-5
D205	G-6
D206	H-7
D207	K-7
D208	L-7
D209	L-6
D210	J-7
D211	K-6
D212	J-6
D213	J-6
D214	G-7
D215	G-7
D216	G-7
D217	G-7
D401	D-3
D402	D-3
E1	C-7
E2	D-6
E3	F-2
E4	E-9
E5	A-3
E201	J-9
E202	K-7
E203	K-4
E204	F-5
E205	L-2
IC1	C-8
IC2	D-7
IC3	D-6
IC4	E-5
IC5	D-5
IC6	G-4
IC7	E-4
IC8	F-3
IC9	D-3
IC10	E-2
IC11	D-9
IC12	B-5
IC13	E-9
IC14	B-3
IC15	E-8
IC16	F-8
IC17	E-7
IC18	B-2
IC19	C-2
IC20	C-4
IC201	K-8
IC202	J-5
IC203	H-6
IC204	K-6
IC205	F-6
IC206	K-3
IC207	K-2
IC208	G-6
IC401	B-3
Q1	A-9
Q2	C-8
Q3	B-7
Q4	A-8
Q5	A-7
Q6	C-7
Q7	G-3
Q8	G-3
Q9	G-3
Q10	C-8
Q11	D-8
Q12	D-7
Q13	D-7
Q14	C-2
Q15	F-2
Q16	D-9
Q17	B-8
Q18	E-4
Q19	H-2
Q20	F-4
Q21	H-4
Q22	H-4
Q23	H-4
Q24	G-5
Q25	G-4
Q26	D-2
Q27	D-3
Q28	E-3
Q29	E-3
Q30	G-2
Q31	E-3
Q32	F-2
Q33	D-8
Q34	F-8
Q35	D-9
Q36	E-9
Q37	E-8
Q38	G-2
Q39	E-2
Q40	B-2
Q41	A-3
Q42	B-4
Q43	C-7
Q44	C-7
Q45	D-7
Q47	C-4
Q48	B-4
Q49	F-4
Q50	C-6
Q51	D-5
Q52	C-6
Q53	A-6
Q54	A-5
Q55	A-4
Q56	A-5
Q57	B-4
Q58	B-4
Q59	C-5
Q60	C-4
Q61	E-9
Q62	E-5
Q63	E-6
Q201	H-9
Q202	H-9
Q203	H-8
Q204	H-9
Q205	H-9
Q206	K-7
Q207	J-7
Q208	J-7
Q209	F-7
Q210	J-7
Q211	G-9
Q212	L-6
Q213	L-5
Q214	H-7
Q215	G-6
Q216	H-6
Q217	G-5
Q218	J-7
Q219	J-7
Q220	G-6
Q221	G-7
Q222	G-6
Q223	G-9
Q225	L-8
Q226	L-8
Q227	L-8
Q228	K-7
Q230	J-9
Q231	G-5
Q233	K-9
Q401	C-2
Q402	E-4
Q403	F-3
RV1	B-9
RV2	B-8
RV3	B-8
RV4	B-8
RV5	A-8
RV6	C-8
RV7	E-6
RV8	D-4
RV9	A-5
RV10	B-5
RV11	B-4
RV12	H-4
RV13	E-2
RV14	E-8
RV15	C-5
RV16	A-3
RV17	F-9
RV18	J-2
RV19	E-4
RV20	C-6
RV201	J-9
RV203	K-6
RV204	K-4
RV205	H-7
RV206	G-5
RV207	J-4
RV208	J-3
RV209	J-3
RV210	J-2
RV211	K-2
RV212	K-7
RV213	H-9
RV214	H-8
RV215	K-5
RV401	F-4
SL1	B-8
SL2	C-5
SL3	F-4
SL4	A-9
SL5	F-4
SL6	F-6
TP1	B-9
TP2	B-8
TP3	D-8
TP4	D-7
TP5	F-4
TP6	C-2
TP7	G-2
TP8	B-2
TP9	E-9
TP10	E-9
TP11	F-8
TP12	E-5
TP13	C-4
TP14	D-4
TP15	B-3
TP16	C-4
TP17	B-9
TP18	A-9
TP19	B-2
TP20	C-2
TP21	B-7
TP22	D-4
TP201	J-8
TP202	K-8
TP203	K-6
TP204	G-7
TP205	H-5
TP206	J-4
TP207	J-4
TP208	J-8
TP209	J-8
TP210	L-4
TP211	K-2
TP212	K-6
TP213	K-6



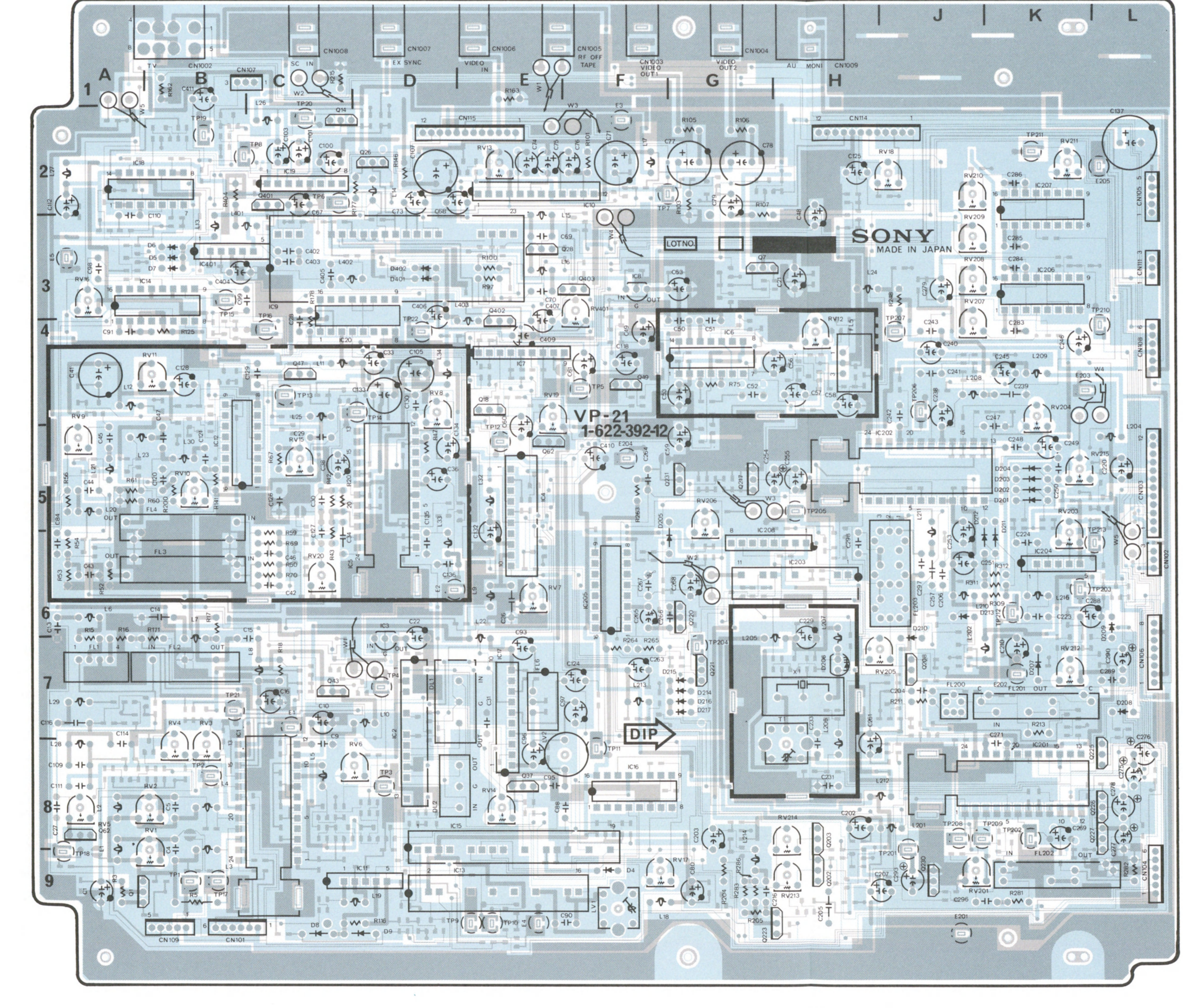
VP-21
-SOLDERING SIDE-
1-622-392-12

VP-21(1/2):Y/C DEMODULATOR (COMPONENT SIDE)

UC;S/N 10251 thru 11350
J; S/N 10051 thru 10200

VP-21 (1-622-392-12)-C


CN101	B-9	E201	J-9	Q28	E-3	RV215	K-5
CN102	L-6	E202	K-7	Q37	E-8	RV401	F-4
CN103	L-5	E203	K-4	Q43	C-7		
CN104	L-9	E204	F-5	Q47	C-4	T1	H-8
CN105	L-2	E205	L-2	Q49	F-4		
CN106	L-7			Q62	E-5	TP1	B-9
CN107	B-1	FL1	A-7	Q202	H-9	TP2	B-8
CN108	L-4	FL2	B-7	Q203	H-8	TP3	D-8
CN109	B-9	FL3	B-6	Q208	J-7	TP4	D-7
CN111	L-3	FL4	B-5	Q217	G-5	TP5	F-4
CN114	H-2	FL5	H-4	Q220	G-6	TP6	C-2
CN115	E-2	FL6	E-7	Q221	G-7	TP7	F-2
CN1002	B-1	FL200	J-7	Q223	H-9	TP8	B-2
CN1003	F-1	FL201	K-7	Q225	L-8	TP9	E-9
CN1004	G-1	FL202	K-9	Q226	L-8	TP10	E-9
CN1005	F-1	FL203	J-6	Q227	L-8	TP11	F-8
CN1006	E-1			Q230	J-9	TP12	E-5
CN1007	D-1	IC1	C-8	Q231	G-5	TP13	C-4
CN1008	C-1	IC2	D-7	Q401	C-2	TP14	D-4
CN1009	H-1	IC3	D-6	Q402	E-4	TP15	B-3
		IC4	E-5	Q403	F-3	TP16	C-4
D4	F-9	IC5	D-5			TP17	B-9
D5	B-3	IC6	G-4	RV1	B-9	TP18	A-9
D6	B-3	IC7	E-4	RV2	B-8	TP19	B-2
D7	B-3	IC8	F-3	RV3	B-8	TP20	C-2
D8	C-9	IC9	D-3	RV4	B-8	TP21	B-7
D9	D-9	IC10	E-2	RV5	A-8	TP22	D-4
D201	K-5	IC11	D-9	RV6	C-8	TP201	J-9
D202	K-5	IC12	B-5	RV7	E-6	TP202	K-8
D203	K-5	IC13	E-9	RV8	D-4	TP203	K-6
D204	K-5	IC14	B-3	RV9	A-5	TP204	G-7
D205	F-6	IC15	E-8	RV10	B-5	TP205	H-5
D206	D-7	IC16	F-8	RV11	B-4	TP206	J-4
D207	K-7	IC17	E-7	RV12	H-4	TP207	J-4
D208	L-7	IC18	B-2	RV13	E-2	TP208	J-8
D209	L-6	IC19	C-2	RV14	E-8	TP209	J-8
D210	J-7	IC20	C-4	RV15	C-5	TP210	L-4
D211	K-6	IC201	K-8	RV16	A-3	TP211	K-2
D212	J-6	IC202	J-5	RV17	F-9	TP212	K-6
D213	J-6	IC203	H-6	RV18	J-2	TP213	K-6
D214	G-7	IC204	K-6	RV19	E-4		
D215	G-7	IC205	F-6	RV20	C-6	X1	H-7
D216	G-7	IC206	K-3	RV201	J-9		
D217	G-7	IC207	K-2	RV203	K-6		
D401	D-3	IC208	G-6	RV204	K-5		
D402	D-3	IC401	B-3	RV205	J-7		
				RV206	G-5		
DL1	D-7	LV1	F-9	RV207	J-4		
DL2	D-8	LV2	E-8	RV208	J-3		
				RV209	J-3		
E1	C-7	Q1	A-9	RV210	J-2		
E2	D-6	Q7	G-3	RV211	K-2		
E3	F-2	Q14	C-2	RV212	K-7		
E4	E-9	Q18	E-4	RV213	H-9		
E5	A-3	Q26	D-2	RV214	H-8		



VP-21
-COMPONENT SIDE-
1-622-392-12
VO-9600

VP-21(2/2): Y/C DEMODULATOR

UC; S/N 10251 thru 11350
J; S/N 10051 thru 10200



① TP202 REC 140mVp-p H
② TP209 REC 0.6Vp-p H
③ IC201 24PIN REC 2Vp-p H
④ TP208 REC 0.52Vp-p 4.27MHZ
⑤ TP203 0.7Vp-p H
⑥ TP213 80mVp-p H
⑦ TP210 TP211 4Vp-p H
⑧ TP205 0.52Vp-p 3.58MHZ
⑨ TP201 0.15Vp-p H
⑩ TP204 0.7Vp-p H
⑪ TP206 6Vp-p H
⑫ TP207 2.8Vp-p
IC202 22PIN 1.3Vp-p
⑬ TP209 PB 0.9Vp-p H
⑭ IC201 24PIN PB 3Vp-p H
⑮ IC201 21PIN 0.27Vp-p 3.58MHZ
⑯ IC201 13PIN 0.7Vp-p H
⑰ Q211 BASE 0.2Vp-p H
⑱ IC202 17PIN 0.7Vp-p H
⑲ IC202 6PIN 0.7Vp-p 3.58MHZ
⑳ IC202 4PIN 0.9Vp-p 4.43MHZ
㉑ X1 0.4Vp-p 3.58MHZ
㉒ IC201 12PIN 0.7Vp-p H

VP-21(2/2): Y/C DEMODULATOR (SOLDERING SIDE)

UC; S/N 10251 thru 11350
J; S/N 10051 thru 10200

VP-21 (1-622-392-12)-S

CN101	B-9	E201	J-9	Q20	F-4	Q213	L-5	RV215	K-5
CN102	L-6	E202	K-7	Q21	H-4	Q214	H-7	RV401	F-4
CN103	L-5	E203	K-4	Q22	H-4	Q215	G-6		
CN104	L-9	E204	F-5	Q23	H-4	Q216	H-6	SL1	B-8
CN105	L-2	E205	L-2	Q24	G-5	Q217	G-5	SL2	C-5
CN106	L-7			Q25	G-4	Q218	J-7	SL3	F-4
CN107	B-1	IC1	C-8	Q26	D-2	Q219	J-7	SL4	A-9
CN108	L-4	IC2	D-7	Q27	D-3	Q220	G-6	SL5	F-4
CN109	B-9	IC3	D-6	Q28	E-3	Q221	G-7	SL6	F-6
CN111	L-3	IC4	E-5	Q29	E-3	Q222	G-6		
CN114	H-2	IC5	D-5	Q30	G-2	Q223	G-9	TP1	B-9
CN115	E-2	IC6	G-4	Q31	E-3	Q225	L-8	TP2	B-8
CN1002	B-1	IC7	E-4	Q32	F-2	Q226	L-8	TP3	D-8
CN1003	F-1	IC8	F-3	Q33	D-8	Q227	L-8	TP4	D-7
CN1004	G-1	IC9	D-3	Q34	F-8	Q228	K-7	TP5	F-4
CN1005	F-1	IC10	E-2	Q35	D-9	Q230	J-9	TP6	C-2
CN1006	E-1	IC11	D-9	Q36	E-9	Q231	G-5	TP7	G-2
CN1007	D-1	IC12	B-5	Q37	E-8	Q233	K-9	TP8	B-2
CN1008	C-1	IC13	E-9	Q38	G-2	Q401	C-2	TP9	E-9
CN1009	H-1	IC14	B-3	Q39	E-2	Q402	E-4	TP10	E-9
		IC15	E-8	Q40	B-2	Q403	F-3	TP11	F-8
D1	E-5	IC16	F-8	Q41	A-3			TP12	E-5
D2	B-2	IC17	E-7	Q42	B-4	RV1	B-9	TP13	C-4
D3	G-9	IC18	B-2	Q43	C-7	RV2	B-8	TP14	D-4
D4	F-9	IC19	C-2	Q44	C-7	RV3	B-8	TP15	B-3
D5	B-3	IC20	C-4	Q45	D-7	RV4	B-8	TP16	C-4
D6	B-3	IC201	K-8	Q47	C-4	RV5	A-8	TP17	B-9
D7	B-3	IC202	J-5	Q48	B-4	RV6	C-8	TP18	A-9
D8	C-9	IC203	H-6	Q49	F-4	RV7	E-6	TP19	B-2
D9	D-9	IC204	K-6	Q50	C-6	RV8	D-4	TP20	C-2
D201	K-5	IC205	F-6	Q51	D-5	RV9	A-5	TP21	B-7
D202	K-5	IC206	K-3	Q52	C-6	RV10	B-5	TP22	D-4
D203	K-5	IC207	K-2	Q53	A-6	RV11	B-4	TP201	J-8
D204	K-5	IC208	G-6	Q54	A-5	RV12	H-4	TP202	K-8
D205	G-6	IC401	B-3	Q55	A-4	RV13	E-2	TP203	K-6
D206	H-7			Q56	A-5	RV14	E-8	TP204	G-7
D207	K-7	Q1	A-9	Q57	B-4	RV15	C-5	TP205	H-5
D208	L-7	Q2	C-8	Q58	B-4	RV16	A-3	TP206	J-4
D209	L-6	Q3	B-7	Q59	C-5	RV17	F-9	TP207	J-4
D210	J-7	Q4	A-8	Q60	C-4	RV18	J-2	TP208	J-8
D211	K-6	Q5	A-7	Q61	E-9	RV19	E-4	TP209	J-8
D212	J-6	Q6	C-7	Q62	E-5	RV20	C-6	TP210	L-4
D213	J-6	Q7	G-3	Q63	E-6	RV201	J-9	TP211	K-2
D214	G-7	Q8	G-3	Q201	H-9	RV203	K-6	TP212	K-6
D215	G-7	Q9	G-3	Q202	H-9	RV204	K-4	TP213	K-6
D216	G-7	Q10	C-8	Q203	H-8	RV205	H-7		
D217	G-7	Q11	D-8	Q204	H-9	RV206	G-5		
D401	D-3	Q12	D-7	Q205	H-9	RV207	J-4		
D402	D-3	Q13	D-7	Q206	K-7	RV208	J-3		
		Q14	C-2	Q207	J-7	RV209	J-3		
E1	C-7	Q15	F-2	Q208	J-7	RV210	J-2		
E2	D-6	Q16	D-9	Q209	F-7	RV211	K-2		
E3	F-2	Q17	B-8	Q210	J-7	RV212	K-7		
E4	E-9	Q18	E-4	Q211	G-9	RV213	H-9		
E5	A-3	Q19	H-2	Q212	L-6	RV214	H-8		

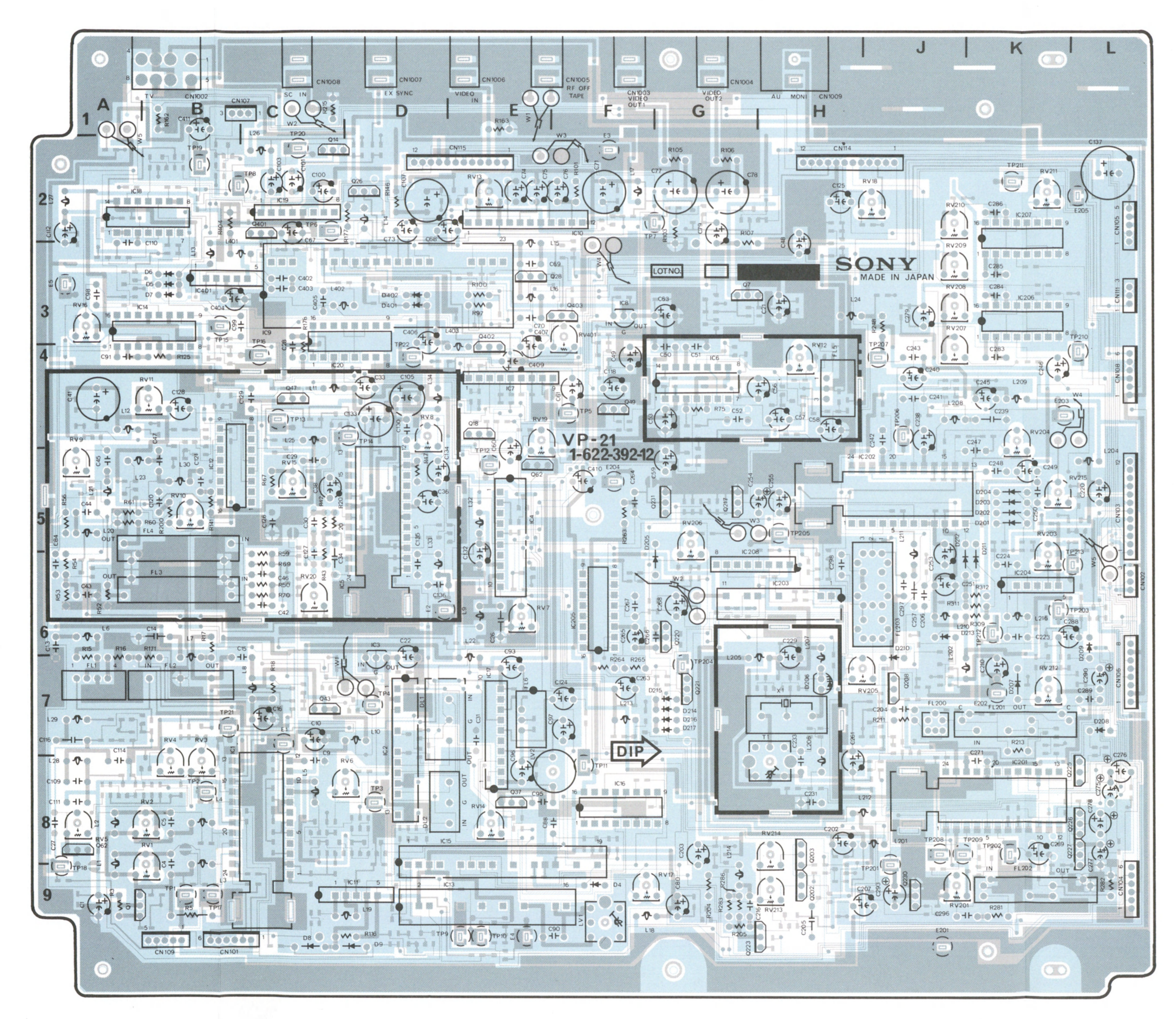
VP-21
-SOLDERING SIDE-
1-622-392-12
VO-9600

VP-21(2/2): Y/C DEMODULATOR (COMPONENT SIDE)

UC; S/N 10251 thru 11350
J; S/N 10051 thru 10200

VP-21 (1-622-392-12)-C

CN101	B-9	E201	J-9	Q28	E-3	RV215	K-5
CN102	L-6	E202	K-7	Q37	E-8	RV401	F-4
CN103	L-5	E203	K-4	Q43	C-7		
CN104	L-9	E204	F-5	Q47	C-4	T1	H-8
CN105	L-2	E205	L-2	Q49	F-4		
CN106	L-7			Q62	E-5	TP1	B-9
CN107	B-1	FL1	A-7	Q202	H-9	TP2	B-8
CN108	L-4	FL2	B-7	Q203	H-8	TP3	D-8
CN109	B-9	FL3	B-6	Q208	J-7	TP4	D-7
CN111	L-3	FL4	B-5	Q217	G-5	TP5	F-4
CN114	H-2	FL5	H-4	Q220	G-6	TP6	C-2
CN115	E-2	FL6	E-7	Q221	G-7	TP7	F-2
CN1002	B-1	FL200	J-7	Q223	H-9	TP8	B-2
CN1003	F-1	FL201	K-7	Q225	L-8	TP9	E-9
CN1004	G-1	FL202	K-9	Q226	L-8	TP10	E-9
CN1005	F-1	FL203	J-6	Q227	L-8	TP11	F-8
CN1006	E-1			Q230	J-9	TP12	E-5
CN1007	D-1	IC1	C-8	Q231	G-5	TP13	C-4
CN1008	C-1	IC2	D-7	Q401	C-2	TP14	D-4
CN1009	H-1	IC3	D-6	Q402	E-4	TP15	B-3
		IC4	E-5	Q403	F-3	TP16	C-4
D4	F-9	IC5	D-5			TP17	B-9
D5	B-3	IC6	G-4	RV1	B-9	TP18	A-9
D6	B-3	IC7	E-4	RV2	B-8	TP19	B-2
D7	B-3	IC8	F-3	RV3	B-8	TP20	C-2
D8	C-9	IC9	D-3	RV4	B-8	TP21	B-7
D9	D-9	IC10	E-2	RV5	A-8	TP22	D-4
D201	K-5	IC11	D-9	RV6	C-8	TP201	J-9
D202	K-5	IC12	B-5	RV7	E-6	TP202	K-8
D203	K-5	IC13	E-9	RV8	D-4	TP203	K-6
D204	K-5	IC14	B-3	RV9	A-5	TP204	G-7
D205	F-6	IC15	E-8	RV10	B-5	TP205	H-5
D206	D-7	IC16	F-8	RV11	B-4	TP206	J-4
D207	K-7	IC17	E-7	RV12	H-4	TP207	J-4
D208	L-7	IC18	B-2	RV13	E-2	TP208	J-8
D209	L-6	IC19	C-2	RV14	E-8	TP209	J-8
D210	J-7	IC20	C-4	RV15	C-5	TP210	L-4
D211	K-6	IC201	K-8	RV16	A-3	TP211	K-2
D212	J-6	IC202	J-5	RV17	F-9	TP212	K-6
D213	J-6	IC203	H-6	RV18	J-2	TP213	K-6
D214	G-7	IC204	K-6	RV19	E-4		
D215	G-7	IC205	F-6	RV20	C-6	X1	H-7
D216	G-7	IC206	K-3	RV201	J-9		
D217	G-7	IC207	K-2	RV203	K-6		
D401	D-3	IC208	G-6	RV204	K-5		
D402	D-3	IC401	B-3	RV205	J-7		
				RV206	G-5		
DL1	D-7	LV1	F-9	RV207	J-4		
DL2	D-8	LV2	E-8	RV208	J-3		
				RV209	J-3		
E1	C-7	Q1	A-9	RV210	J-2		
E2	D-6	Q7	G-3	RV211	K-2		
E3	F-2	Q14	C-2	RV212	K-7		
E4	E-9	Q18	E-4	RV213	H-9		
E5	A-3	Q26	D-2	RV214	H-8		




VP-21
-COMPONENT SIDE-

VP-21(1/2): Y/C DEMODULATOR

UC; S/N 11351 and higher
J; S/N 10201 and higher



VP-21 (1/2)
1-622-392-13
VO-9600

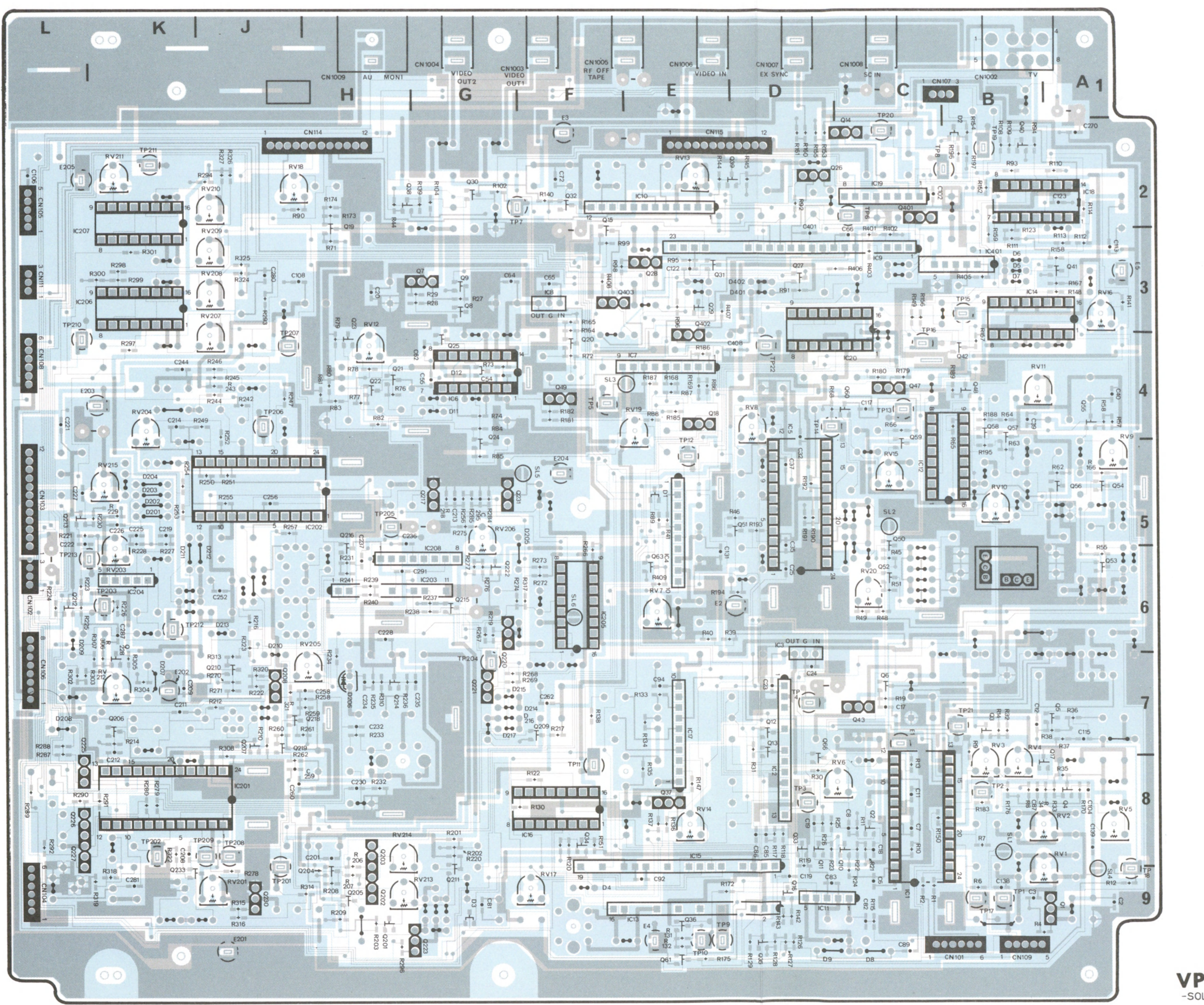
1. IC1 20PIN — 0.4Vp-p; 21PIN — 0.4Vp-p; 18PIN — 10Vp-p; 2V
2. TP18 — 2.3Vp-p; V
3. RV3 CENTER — 1.4Vp-p; V
4. TP4 — 0.9Vp-p; 2V
5. TP11 — 0.4Vp-p; H
6. TP19 — 0.19Vp-p; H
7. TP14 — 0.12Vp-p; H
8. TP13 — 0.13Vp-p; H
9. TP3 — 0.2Vp-p; 2V
10. TP9 — 2.6Vp-p; H
11. TP5 — 0.7Vp-p; H
12. TP6 — 0.4Vp-p; H
13. TP7 — 2.2Vp-p; H
14. TP8 — 70mVp-p; V
15. IC5 1PIN — 0.84Vp-p
16. Q50 EMITTER — 1Vp-p; H
17. TP21 — 1.4Vp-p; V

VP-21(1/2):Y/C DEMODULATOR (SOLDERING SIDE)

UC; S/N 11351 and higher
J; S/N 10201 and higher

VP-21 (1-622-392-13)-S

CN101	B-9
CN102	L-6
CN103	L-5
CN104	L-9
CN105	L-2
CN106	L-7
CN107	B-1
CN108	L-4
CN109	B-9
CN111	L-3
CN114	H-2
CN115	E-2
CN1002	B-1
CN1003	F-1
CN1004	G-1
CN1005	F-1
CN1006	E-1
CN1007	D-1
CN1008	C-1
CN1009	H-1
D1	E-5
D2	B-2
D3	G-9
D4	F-9
D5	B-3
D6	B-3
D7	B-3
D8	C-9
D9	D-9
D11	G-4
D12	G-4
D201	K-5
D202	K-5
D203	K-5
D204	K-5
D205	G-6
D206	H-7
D207	K-7
D208	L-7
D209	L-6
D210	J-7
D211	K-6
D212	J-6
D213	J-6
D214	G-7
D215	G-7
D216	G-7
D217	G-7
D401	D-3
D402	D-3
E1	C-7
E2	D-6
E3	F-2
E4	E-9
E5	A-3
E201	J-9
E202	K-7
E203	K-4
E204	F-5
E205	L-2
IC1	C-8
IC2	D-7
IC3	D-6
IC4	E-5
IC5	D-5
IC6	G-4
IC7	E-4
IC8	F-3
IC9	D-3
IC10	E-2
IC11	D-9
IC12	B-5
IC13	E-9
IC14	B-3
IC15	E-8
IC16	F-8
IC17	E-7
IC18	B-2
IC19	C-2
IC20	C-4
IC201	K-8
IC202	J-5
IC203	H-6
IC204	K-6
IC205	F-6
IC206	K-3
IC207	K-2
IC208	G-6
IC401	B-3
Q1	A-9
Q2	C-8
Q3	B-7
Q4	A-8
Q5	A-7
Q6	C-7
Q7	G-3
Q8	G-3
Q9	G-3
Q10	C-8
Q11	D-8
Q12	D-7
Q13	D-7
Q14	C-2
Q15	F-2
Q16	D-9
Q17	A-8
Q18	E-4
Q19	H-2
Q20	F-4
Q21	H-4
Q22	H-4
Q23	H-4
Q24	G-5
Q25	G-4
Q26	D-2
Q27	D-3
Q28	E-3
Q29	E-3
Q30	G-2
Q31	E-3
Q32	F-2
Q33	D-8
Q34	F-8
Q35	D-9
Q36	E-9
Q37	E-8
Q38	H-2
Q39	D-2
Q40	B-2
Q41	A-3
Q42	B-4
Q43	C-7
Q47	C-4
Q48	B-4
Q49	F-4
Q50	C-6
Q51	D-5
Q52	C-6
Q53	A-6
Q54	A-5
Q55	A-4
Q56	A-5
Q57	B-4
Q58	B-4
Q59	C-5
Q60	C-4
Q61	E-9
Q63	E-6
Q66	D-8
Q201	H-9
Q202	H-9
Q203	H-8
Q204	H-9
Q205	H-9
Q206	K-7
Q207	J-7
Q208	J-7
Q209	F-7
Q210	J-7
Q211	G-9
Q212	L-6
Q213	L-5
Q214	H-7
Q215	G-6
Q216	H-6
Q217	G-5
Q218	J-7
Q219	J-7
Q220	G-6
Q221	G-7
Q222	G-6
Q223	H-9
Q225	L-8
Q226	L-8
Q227	L-8
Q228	K-7
Q230	J-9
Q231	G-5
Q233	K-9
Q401	C-2
Q402	E-4
Q403	F-3
RV1	B-9
RV2	B-8
RV3	B-8
RV4	B-8
RV5	A-8
RV6	C-8
RV7	E-6
RV8	D-4
RV9	A-5
RV10	B-5
RV11	B-4
RV12	H-4
RV13	E-2
RV14	E-8
RV15	C-5
RV16	A-3
RV17	F-9
RV18	J-2
RV19	E-4
RV20	C-6
RV201	J-9
RV203	K-6
RV204	K-4
RV205	H-7
RV206	G-5
RV207	J-4
RV208	J-3
RV209	J-3
RV210	J-2
RV211	K-2
RV212	K-7
RV213	H-9
RV214	H-8
RV215	K-5
SL1	B-8
SL2	C-5
SL3	F-4
SL4	A-9
SL5	F-5
SL6	F-6
TP1	B-9
TP2	B-8
TP3	D-8
TP4	D-7
TP5	F-4
TP6	C-2
TP7	G-2
TP8	B-2
TP9	E-9
TP10	E-9
TP11	F-8
TP12	E-5
TP13	C-4
TP14	D-4
TP15	B-3
TP16	C-4
TP17	B-9
TP18	A-9
TP19	B-2
TP20	C-2
TP21	B-7
TP22	D-4
TP201	J-8
TP202	K-8
TP203	K-6
TP204	G-7
TP205	H-5
TP206	J-4
TP207	J-4
TP208	J-8
TP209	J-8
TP210	L-4
TP211	K-2
TP212	K-6
TP213	K-6



VP-21
-SOLDERING SIDE-

1-622-392-13
VO-9600

VP-21(1/2):Y/C DEMODULATOR (COMPONENT SIDE)

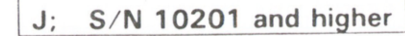
UC; S/N 11351 and higher
J; S/N 10201 and higher

VP-21 (1-622-392-13)-C

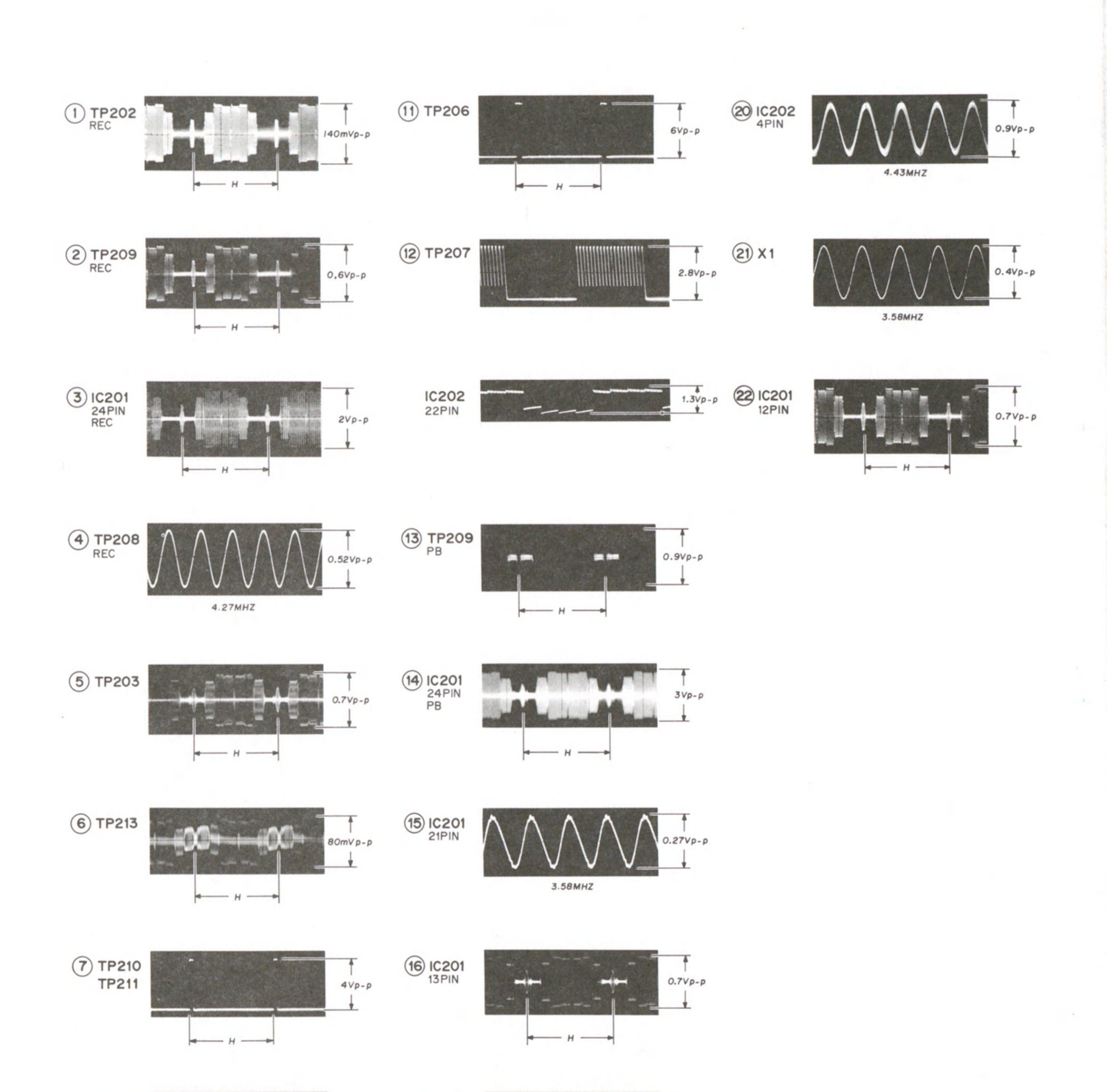
CN101	B-9	E201	J-9	Q37	E-8	T1	H-8
CN102	L-6	E202	K-7	Q43	C-7		
CN103	L-5	E203	K-4	Q47	C-4	TP1	B-9
CN104	L-9	E204	F-5	Q49	F-4	TP2	B-8
CN105	L-2	E205	L-2	Q202	H-9	TP3	D-8
CN106	L-7			Q203	H-8	TP4	D-7
CN107	B-1	FL1	A-7	Q208	J-7	TP5	F-4
CN108	L-4	FL2	B-7	Q217	G-5	TP6	C-2
CN109	B-9	FL3	B-6	Q220	G-6	TP7	F-2
CN111	L-3	FL4	B-5	Q221	G-7	TP8	B-2
CN114	H-2	FL5	H-4	Q223	H-9	TP9	E-9
CN115	E-2	FL6	E-7	Q225	L-8	TP10	E-9
CN1002	B-1	FL200	J-7	Q226	L-8	TP11	F-8
CN1003	F-1	FL201	K-7	Q227	L-8	TP12	E-5
CN1004	G-1	FL202	K-9	Q230	J-9	TP13	C-4
CN1005	E-1	FL203	K-6	Q231	G-5	TP14	D-4
CN1006	E-1			Q401	C-2	TP15	B-3
CN1007	D-1	IC1	C-8	Q402	E-4	TP16	C-4
CN1008	C-1	IC2	D-7	Q403	F-3	TP17	B-9
CN1009	H-1	IC3	D-7			TP18	A-9
		IC4	E-5	RV1	B-9	TP19	B-2
D4	F-9	IC5	D-5	RV2	B-8	TP20	C-2
D5	B-3	IC6	G-4	RV3	B-8	TP21	B-7
D6	B-3	IC7	E-4	RV4	B-8	TP22	D-4
D7	B-3	IC8	F-3	RV5	A-8	TP201	J-9
D8	C-9	IC9	D-3	RV6	C-8	TP202	K-8
D9	D-9	IC10	E-2	RV7	E-6	TP203	K-6
D11	G-4	IC11	D-9	RV8	D-4	TP204	G-7
D201	K-5	IC12	B-5	RV9	A-5	TP205	H-5
D202	K-5	IC13	E-9	RV10	B-5	TP206	J-4
D203	K-5	IC14	B-3	RV11	B-4	TP207	J-4
D204	K-5	IC15	E-8	RV12	H-4	TP208	J-8
D205	F-6	IC16	F-8	RV13	E-2	TP209	J-8
D206	H-7	IC18	B-2	RV14	E-8	TP210	L-4
D207	K-7	IC19	C-2	RV15	C-5	TP211	K-2
D208	L-7	IC20	D-3	RV16	A-3	TP212	K-6
D209	L-6	IC201	K-8	RV17	F-9	TP213	K-6
D210	J-7	IC202	J-5	RV18	J-2		
D211	K-6	IC203	H-6	RV19	E-4	X1	H-7
D212	J-6	IC204	K-6	RV20	C-6		
D213	J-6	IC205	F-6	RV201	J-9		
D214	G-7	IC206	K-3	RV203	K-6		
D215	G-7	IC207	K-2	RV204	K-5		
D216	G-7	IC208	G-6	RV205	J-7		
D217	G-7	IC401	B-3	RV206	G-5		
D401	D-3			RV207	J-4		
D402	D-3	LV1	F-9	RV208	J-3		
DL1	D-7	LV2	E-8	RV209	J-3		
DL2	D-8			RV210	J-2		
		Q1	A-9	RV211	K-2		
E1	C-7	Q7	G-3	RV212	K-7		
E2	D-6	Q14	C-2	RV213	H-9		
E3	F-2	Q18	E-4	RV214	H-8		
E4	E-9	Q26	D-2	RV215	K-5		
E5	A-3	Q28	E-3				

VP-21
-COMPONENT SIDE-
1-622-392-13

VP-21(2/2): Y/C DEMODULATOR



VP-21 (2/2)

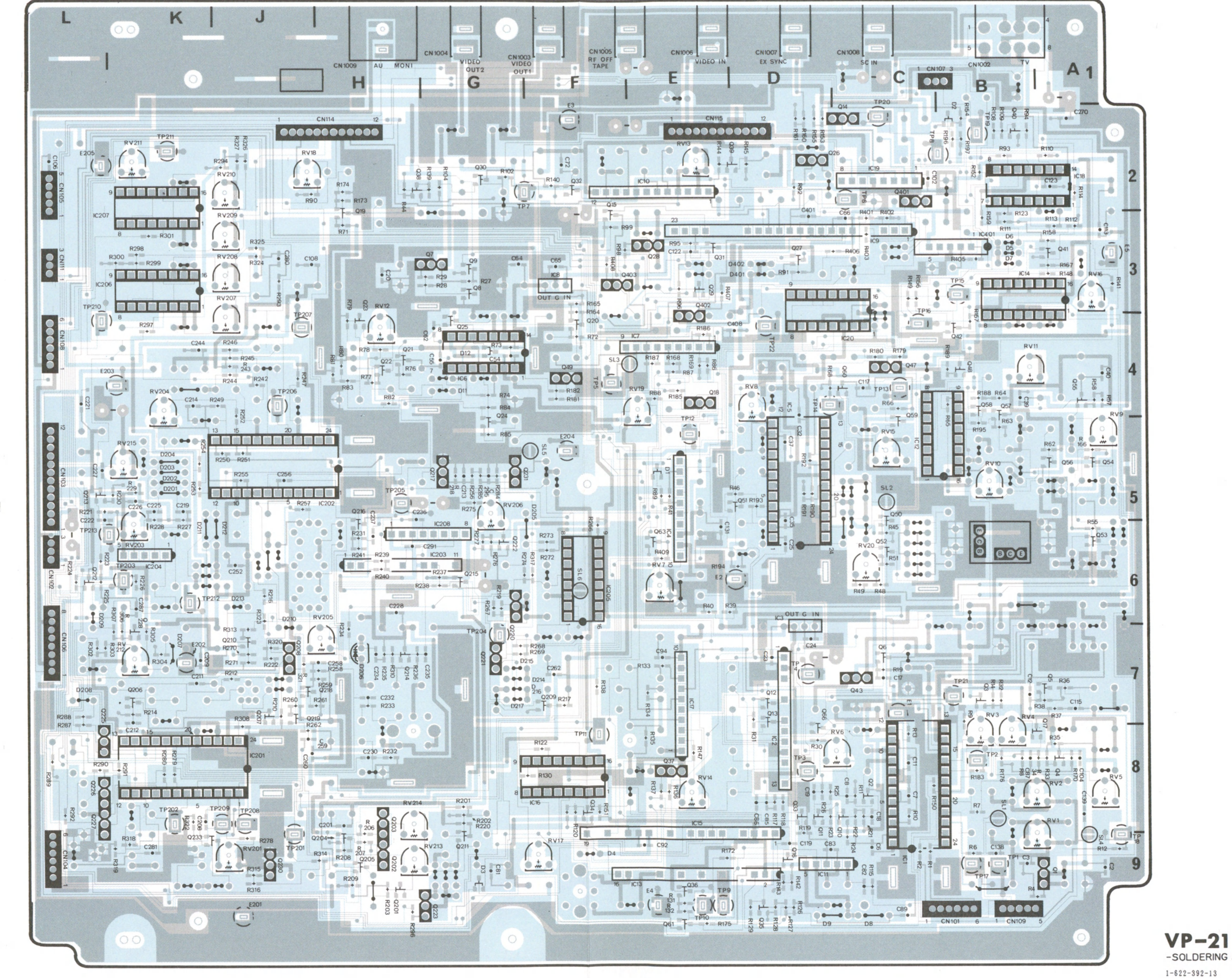


VP-21(2/2):Y/C DEMODULATOR (SOLDERING SIDE)

UC;S/N 11351 and higher
J; S/N 10201 and higher

VP-21 (1-622-392-13)-S

CN101	B-9	E1	C-7	Q15	F-2	Q210	J-7	RV212	K-7
CN102	L-6	E2	D-6	Q16	D-9	Q211	G-9	RV213	H-9
CN103	L-5	E3	F-2	Q17	A-8	Q212	L-6	RV214	H-8
CN104	L-9	E4	E-9	Q18	E-4	Q213	L-5	RV215	K-5
CN105	L-2	E5	A-3	Q19	H-2	Q214	H-7		
CN106	L-7	E201	J-9	Q20	F-4	Q215	G-6	SL1	B-8
CN107	B-1	E202	K-7	Q21	H-4	Q216	H-6	SL2	C-5
CN108	L-4	E203	K-4	Q22	H-4	Q217	G-5	SL3	F-4
CN109	B-9	E204	F-5	Q23	H-4	Q218	J-7	SL4	A-9
CN111	L-3	E205	L-2	Q24	G-5	Q219	J-7	SL5	F-5
CN114	H-2			Q25	G-4	Q220	G-6	SL6	F-6
CN115	E-2	IC1	C-8	Q26	D-2	Q221	G-7		
CN1002	B-1	IC2	D-7	Q27	D-3	Q222	G-6	TP1	B-9
CN1003	F-1	IC3	D-6	Q28	E-3	Q223	H-9	TP2	B-8
CN1004	G-1	IC4	E-5	Q29	E-3	Q225	L-8	TP3	D-8
CN1005	F-1	IC5	D-5	Q30	G-2	Q226	L-8	TP4	D-7
CN1006	E-1	IC6	G-4	Q31	E-3	Q227	L-8	TP5	F-4
CN1007	D-1	IC7	E-4	Q32	F-2	Q228	K-7	TP6	C-2
CN1008	C-1	IC8	F-3	Q33	D-8	Q230	J-9	TP7	G-2
CN1009	H-1	IC9	D-3	Q34	F-8	Q231	G-5	TP8	B-2
		IC10	E-2	Q35	D-9	Q233	K-9	TP9	E-9
D1	E-5	IC11	D-9	Q36	E-9	Q401	C-2	TP10	E-9
D2	B-2	IC12	B-5	Q37	E-8	Q402	E-4	TP11	F-8
D3	G-9	IC13	E-9	Q38	H-2	Q403	F-3	TP12	E-5
D4	F-9	IC14	B-3	Q39	D-2			TP13	C-4
D5	B-3	IC15	E-8	Q40	B-2	RV1	B-9	TP14	D-4
D6	B-3	IC16	F-8	Q41	A-3	RV2	B-8	TP15	B-3
D7	B-3	IC17	E-7	Q42	B-4	RV3	B-8	TP16	C-4
D8	C-9	IC18	B-2	Q43	C-7	RV4	B-8	TP17	B-9
D9	D-9	IC19	C-2	Q47	C-4	RV5	A-8	TP18	A-9
D11	G-4	IC20	C-4	Q48	B-4	RV6	C-8	TP19	B-2
D12	G-4	IC201	K-8	Q49	F-4	RV7	E-6	TP20	C-2
D201	K-5	IC202	J-5	Q50	C-6	RV8	D-4	TP21	B-7
D202	K-5	IC203	H-6	Q51	D-5	RV9	A-5	TP22	D-4
D203	K-5	IC204	K-6	Q52	C-6	RV10	B-5	TP201	J-8
D204	K-5	IC205	F-6	Q53	A-6	RV11	B-4	TP202	K-8
D205	G-6	IC206	K-3	Q54	A-5	RV12	H-4	TP203	K-6
D206	H-7	IC207	K-2	Q55	A-4	RV13	E-2	TP204	G-7
D207	K-7	IC208	G-6	Q56	A-5	RV14	E-8	TP205	H-5
D208	L-7	IC401	B-3	Q57	B-4	RV15	C-5	TP206	J-4
D209	L-6			Q58	B-4	RV16	A-3	TP207	J-4
D210	J-7	Q1	A-9	Q59	C-5	RV17	F-9	TP208	J-8
D211	K-6	Q2	C-8	Q60	C-4	RV18	J-2	TP209	J-8
D212	J-6	Q3	B-7	Q61	E-9	RV19	E-4	TP210	L-4
D213	J-6	Q4	A-8	Q63	E-6	RV20	C-6	TP211	K-2
D214	G-7	Q5	A-7	Q66	D-8	RV201	J-9	TP212	K-6
D215	G-7	Q6	C-7	Q201	H-9	RV203	K-6	TP213	K-6
D216	G-7	Q7	G-3	Q202	H-9	RV204	K-4		
D217	G-7	Q8	G-3	Q203	H-8	RV205	H-7		
D401	D-3	Q9	G-3	Q204	H-9	RV206	G-5		
D402	D-3	Q10	C-8	Q205	H-9	RV207	J-4		
		Q11	D-8	Q206	K-7	RV208	J-3		
		Q12	D-7	Q207	J-7	RV209	J-3		
		Q13	D-7	Q208	J-7	RV210	J-2		
		Q14	C-2	Q209	F-7	RV211	K-2		



VP-21
-SOLDERING SIDE-
1-622-392-13

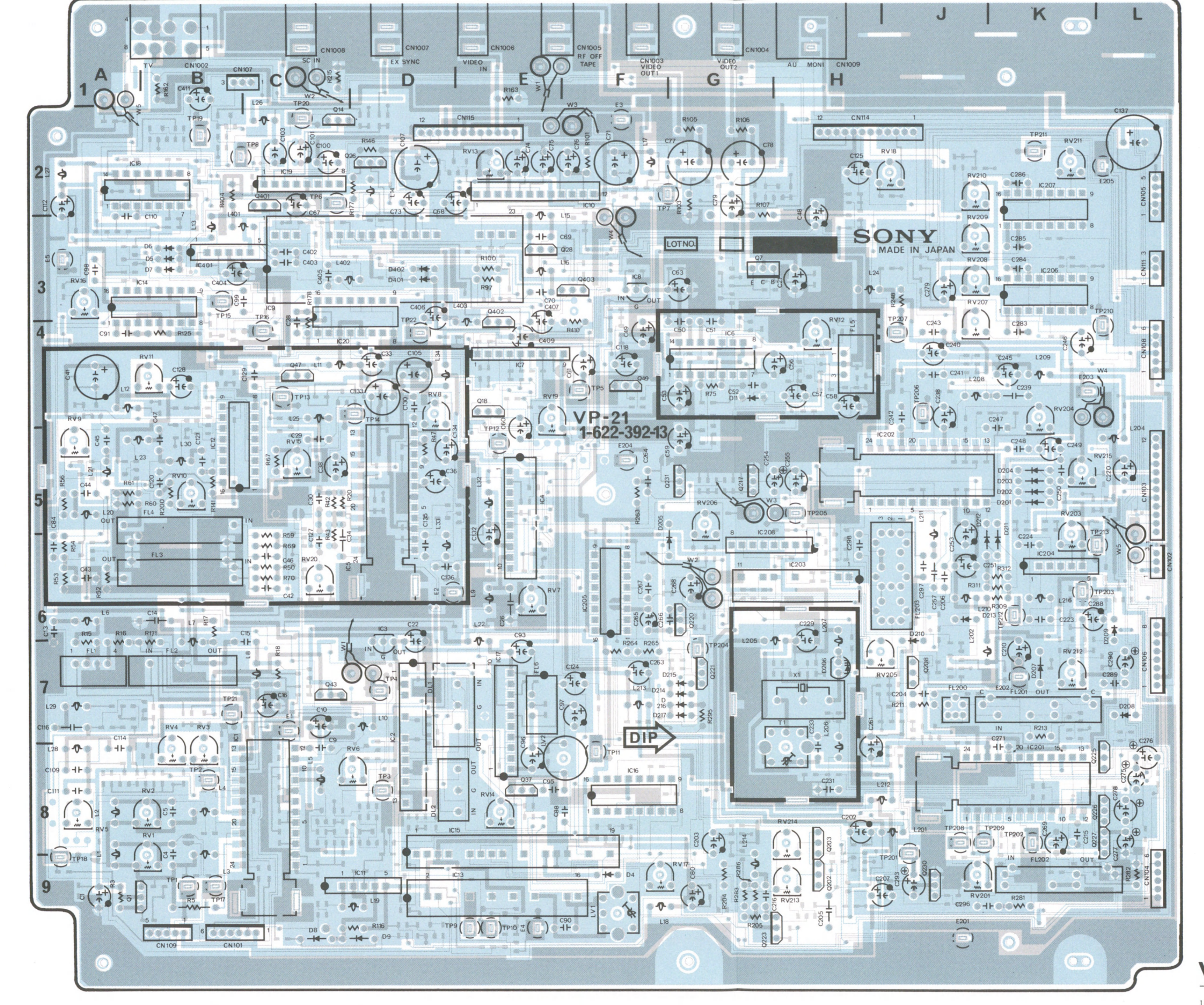
VP-21(2/2): Y/C DEMODULATOR (COMPONENT SIDE)

UC; S/N 11351 and higher
J; S/N 10201 and higher

VP-21 (1-622-392-13)-C

CN101	B-9	E4	E-9	Q26	D-2	T1	H-8
CN102	L-6	E5	A-3	Q28	E-3		
CN103	L-5	E201	J-9	Q37	E-8	TP1	B-9
CN104	L-9	E202	K-7	Q43	C-7	TP2	B-8
CN105	L-2	E203	K-4	Q47	C-4	TP3	D-8
CN106	L-7	E204	F-5	Q49	F-4	TP4	D-7
CN107	B-1	E205	L-2	Q202	H-9	TP5	F-4
CN108	L-4			Q203	H-8	TP6	C-2
CN109	B-9	FL1	A-7	Q208	J-7	TP7	F-2
CN111	L-3	FL2	B-7	Q217	G-5	TP8	B-2
CN114	H-2	FL3	B-6	Q220	G-6	TP9	E-9
CN115	E-2	FL4	B-5	Q221	G-7	TP10	E-9
CN1002	B-1	FL5	H-4	Q223	H-9	TP11	F-8
CN1003	F-1	FL6	E-7	Q225	L-8	TP12	E-5
CN1004	G-1	FL200	J-7	Q226	L-8	TP13	C-4
CN1005	E-1	FL201	K-7	Q227	L-8	TP14	D-4
CN1006	E-1	FL202	K-9	Q230	J-9	TP15	B-3
CN1007	D-1	FL203	K-6	Q231	G-5	TP16	C-4
CN1008	C-1			Q401	C-2	TP17	B-9
CN1009	H-1	IC1	C-8	Q402	E-4	TP18	A-9
		IC2	D-7	Q403	F-3	TP19	B-2
D4	F-9	IC3	D-7			TP20	C-2
D5	B-3	IC4	E-5	RV1	B-9	TP21	B-7
D6	B-3	IC5	D-5	RV2	B-8	TP22	D-4
D7	B-3	IC6	G-4	RV3	B-8	TP201	J-9
D8	C-9	IC7	E-4	RV4	B-8	TP202	K-8
D9	D-9	IC8	F-3	RV5	A-8	TP203	K-6
D11	G-4	IC9	D-3	RV6	C-8	TP204	G-7
D201	K-5	IC10	E-2	RV7	E-6	TP205	H-5
D202	K-5	IC11	D-9	RV8	D-4	TP206	J-4
D203	K-5	IC12	B-5	RV9	A-5	TP207	J-4
D204	K-5	IC13	E-9	RV10	B-5	TP208	J-8
D205	F-6	IC14	B-3	RV11	B-4	TP209	J-8
D206	H-7	IC15	E-8	RV12	H-4	TP210	L-4
D207	K-7	IC16	F-8	RV13	E-2	TP211	K-2
D208	L-7	IC18	B-2	RV14	E-8	TP212	K-6
D209	L-6	IC19	C-2	RV15	C-5	TP213	K-6
D210	J-7	IC20	D-3	RV16	A-3		
D211	K-6	IC201	K-8	RV17	F-9	X1	H-7
D212	J-6	IC202	J-5	RV18	J-2		
D213	J-6	IC203	H-6	RV19	E-4		
D214	G-7	IC204	K-6	RV20	C-6		
D215	G-7	IC205	F-6	RV201	J-9		
D216	G-7	IC206	K-3	RV203	K-6		
D217	G-7	IC207	K-2	RV204	K-5		
D401	D-3	IC208	G-6	RV205	J-7		
D402	D-3	IC401	B-3	RV206	G-5		
				RV207	J-4		
DL1	D-7	LV1	F-9	RV208	J-3		
DL2	D-8	LV2	E-8	RV209	J-3		
				RV210	J-2		
E1	C-7	Q1	A-9	RV211	K-2		
E2	D-6	Q7	G-3	RV212	K-7		
E3	F-2	Q14	C-2	RV213	H-9		
		Q18	E-4	RV214	H-8		
				RV215	K-5		


VP-21(2/2) VP-21(2/2)



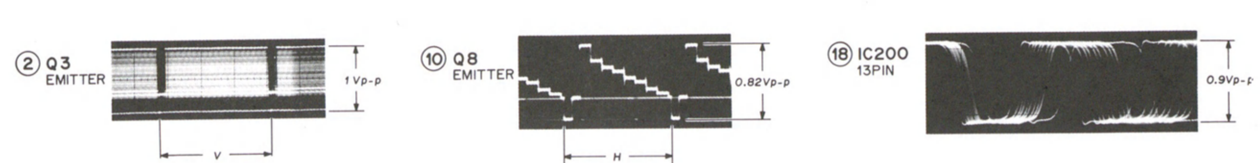
VP-21
-COMPONENT SIDE-

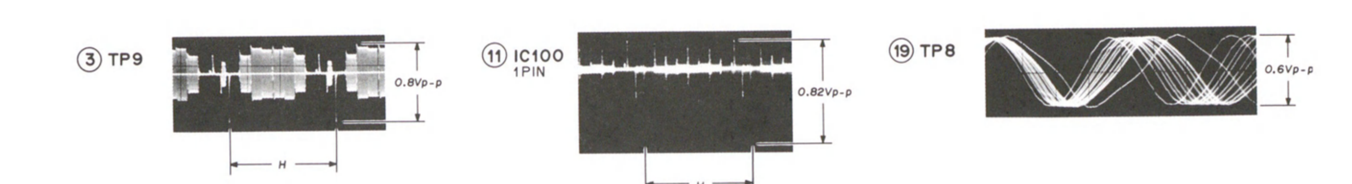
VR-52: Y/C MODULATOR

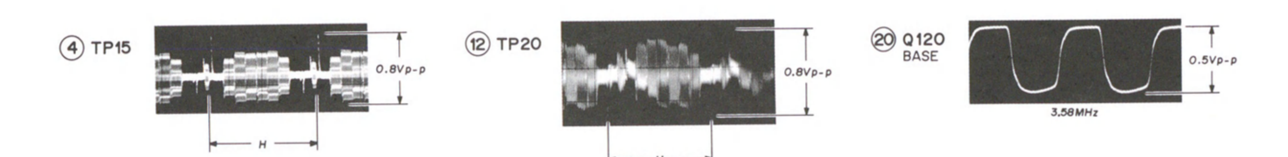
UC; S/N 10001 thru 11350
J; S/N 10001 thru 10200

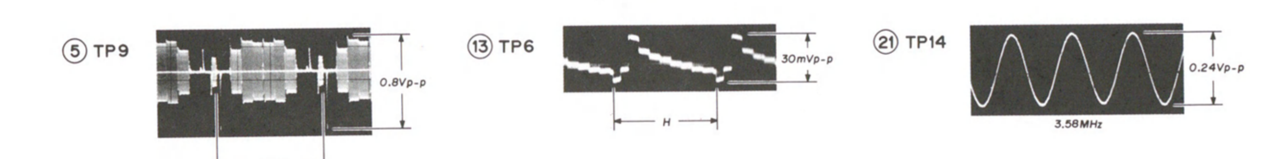


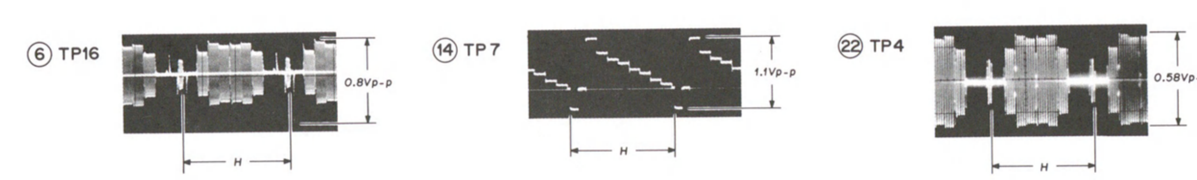
① Q3 EMITTER 1Vp-p ⑨ TP10 0.3Vp-p ⑰ TP13 2Vp-p

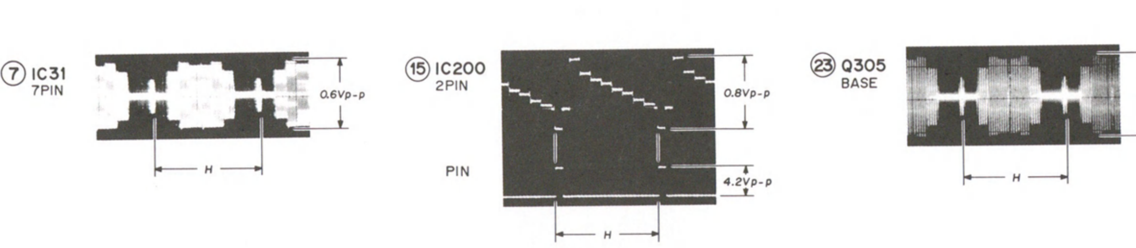


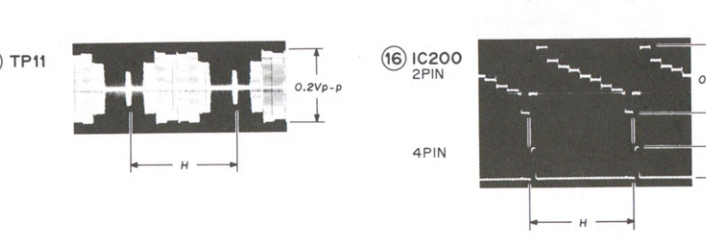








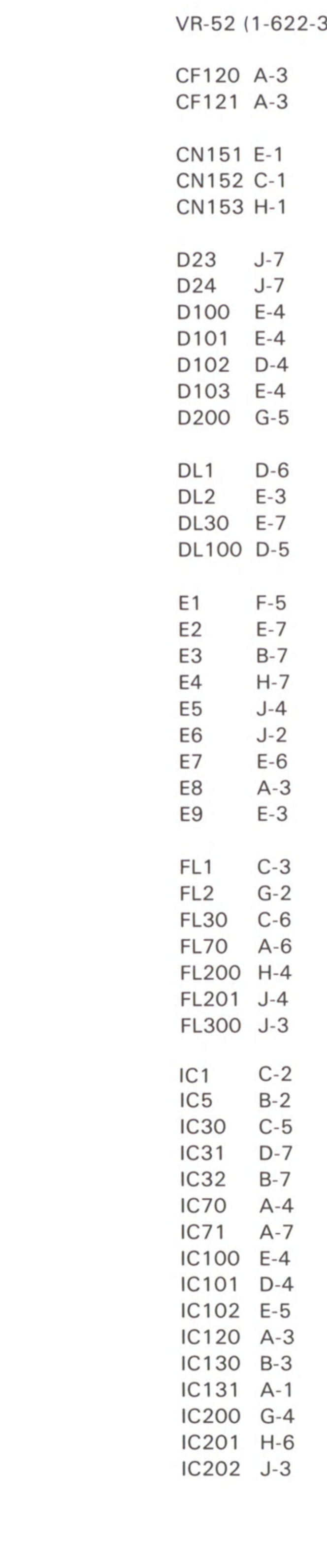




⑯ IC200 2PIN
4PIN

VR-52: Y/C MODULATOR

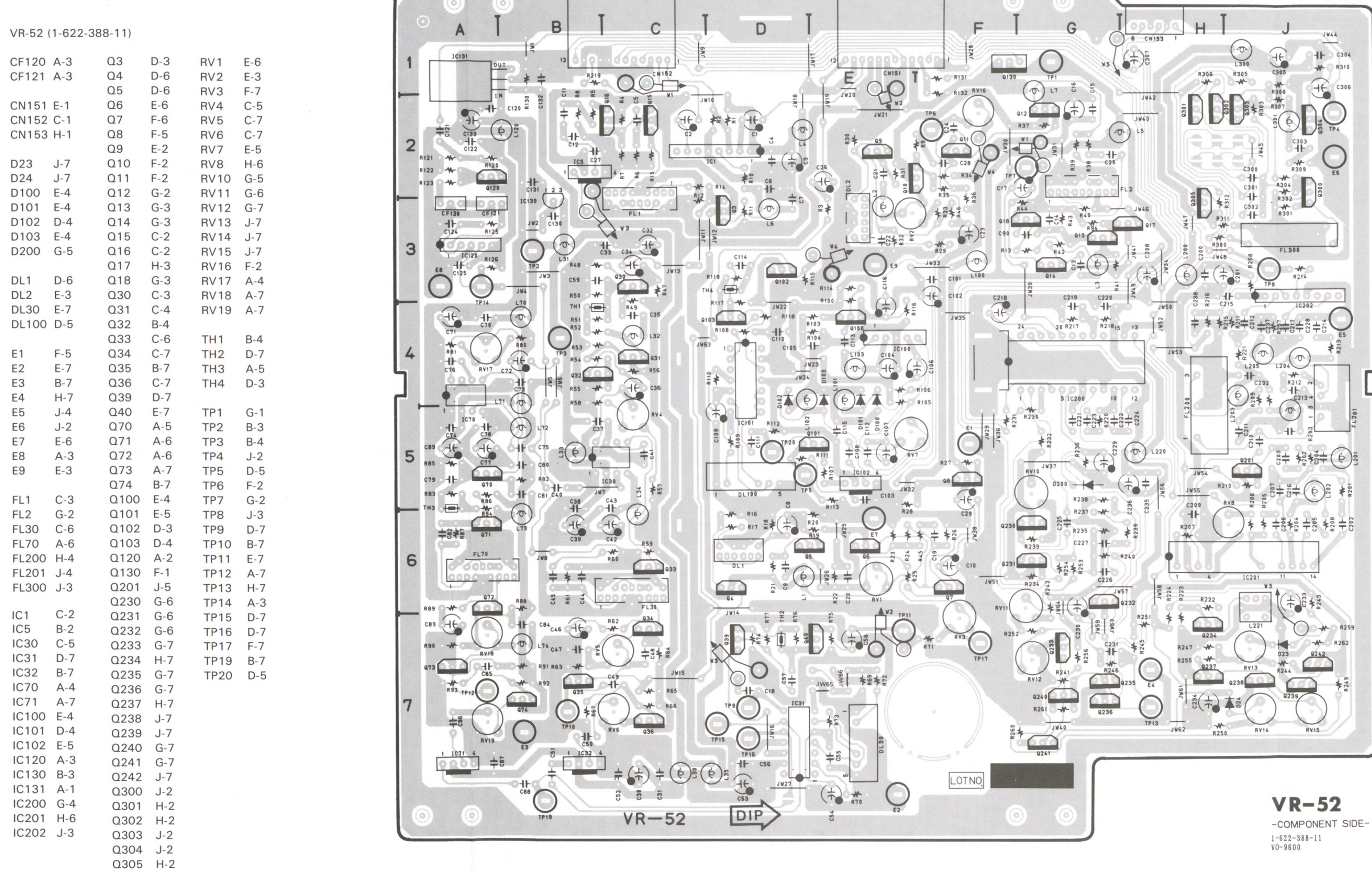
UC; S/N 10001 thru 11350
J; S/N 10001 thru 10200



VR-52 (1-622-388-11)

CF120	A-3	Q3	D-3	RV1	E-6
CF121	A-3	Q4	D-6	RV2	E-3
		Q5	D-6	RV3	F-7
CN151	E-1	Q6	E-6	RV4	C-5
CN152	C-1	Q7	F-6	RV5	C-7
CN153	H-1	Q8	F-5	RV6	C-7
		Q9	E-2	RV7	E-5
D23	J-7	Q10	F-2	RV8	H-6
D24	J-7	Q11	F-2	RV10	G-5
D100	E-4	Q12	G-2	RV11	G-6
D101	E-4	Q13	G-3	RV12	G-7
D102	D-4	Q14	G-3	RV13	J-7
D103	E-4	Q15	C-2	RV14	J-7
D200	G-5	Q16	C-2	RV15	J-7
		Q17	H-3	RV16	F-2
DL1	D-6	Q18	G-3	RV17	A-4
DL2	E-3	Q30	C-3	RV18	A-7
DL30	E-7	Q31	C-4	RV19	A-7
DL100	D-5	Q32	B-4		
		Q33	C-6	TH1	B-4
E1	F-5	Q34	C-7	TH2	D-7
E2	E-7	Q35	B-7	TH3	A-5
E3	B-7	Q36	C-7	TH4	D-3
E4	H-7	Q39	D-7		
E5	J-4	Q40	E-7	TP1	G-1
E6	J-2	Q70	A-5	TP2	B-3
E7	E-6	Q71	A-6	TP3	B-4
E8	A-3	Q72	A-6	TP4	J-2
E9	E-3	Q73	A-7	TP5	D-5
		Q74	B-7	TP6	F-2
FL1	C-3	Q100	E-4	TP7	G-2
FL2	G-2	Q101	E-5	TP8	J-3
FL30	C-6	Q102	D-3	TP9	D-7
FL70	A-6	Q103	D-4	TP10	B-7
FL200	H-4	Q120	A-2	TP11	E-7
FL201	J-4	Q130	F-1	TP12	A-7
FL300	J-3	Q201	J-5	TP13	H-7
		Q230	G-6	TP14	A-3
IC1	C-2	Q231	G-6	TP15	D-7
IC5	B-2	Q232	G-6	TP16	D-7
IC30	C-5	Q233	G-7	TP17	F-7
IC31	D-7	Q234	H-7	TP19	B-7
IC32	B-7	Q235	G-7	TP20	D-5
IC70	A-4	Q236	G-7		
IC71	A-7	Q237	H-7		
IC100	E-4	Q238	J-7		
IC101	D-4	Q239	J-7		
IC102	E-5	Q240	G-7		
IC120	A-3	Q241	G-7		
IC130	B-3	Q242	J-7		
IC131	A-1	Q300	J-2		
IC200	G-4	Q301	H-2		
IC201	H-6	Q302	H-2		
IC202	J-3	Q303	J-2		
		Q304	J-2		
		Q305	H-2		


VR-52 VR-52

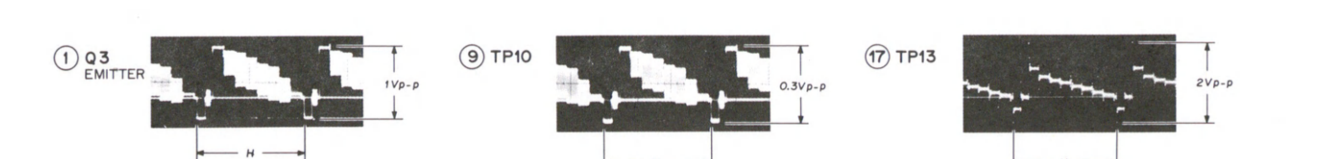


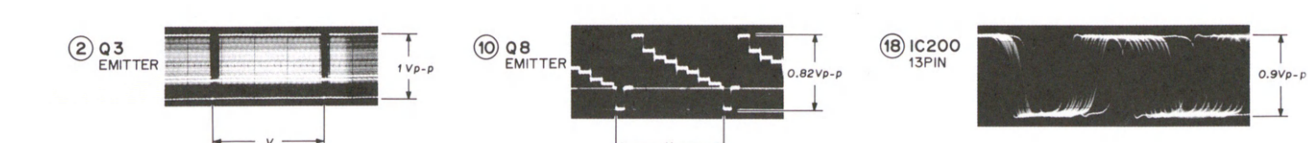
VR-52
-COMPONENT SIDE-
1-622-388-11

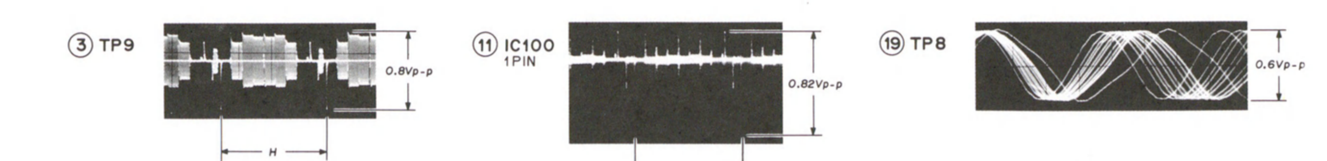
VR-52: Y/C MODULATOR

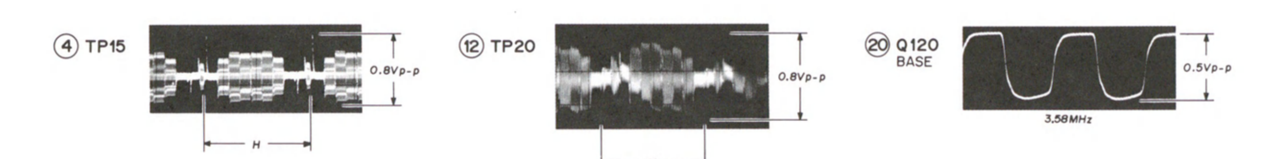
UC; S/N 11351 and higher
J; S/N 10201 and higher

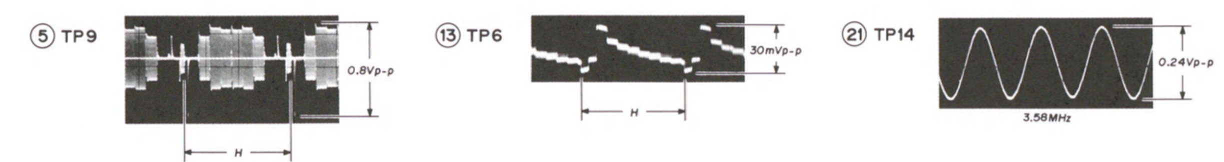


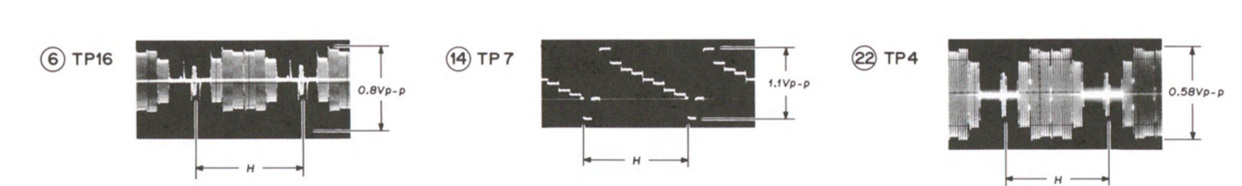


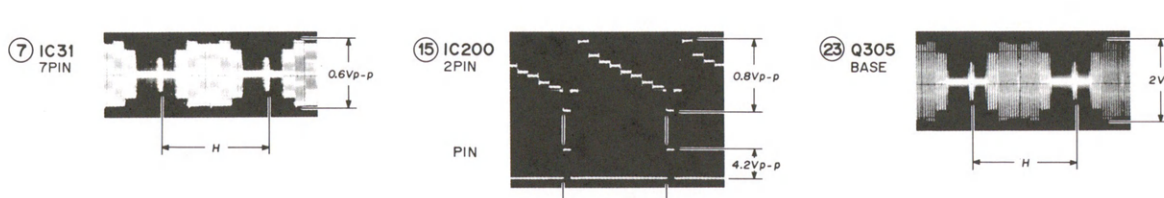


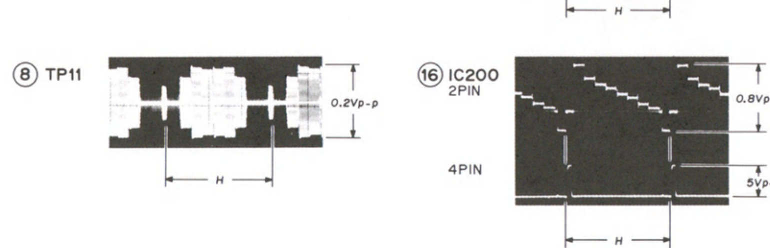










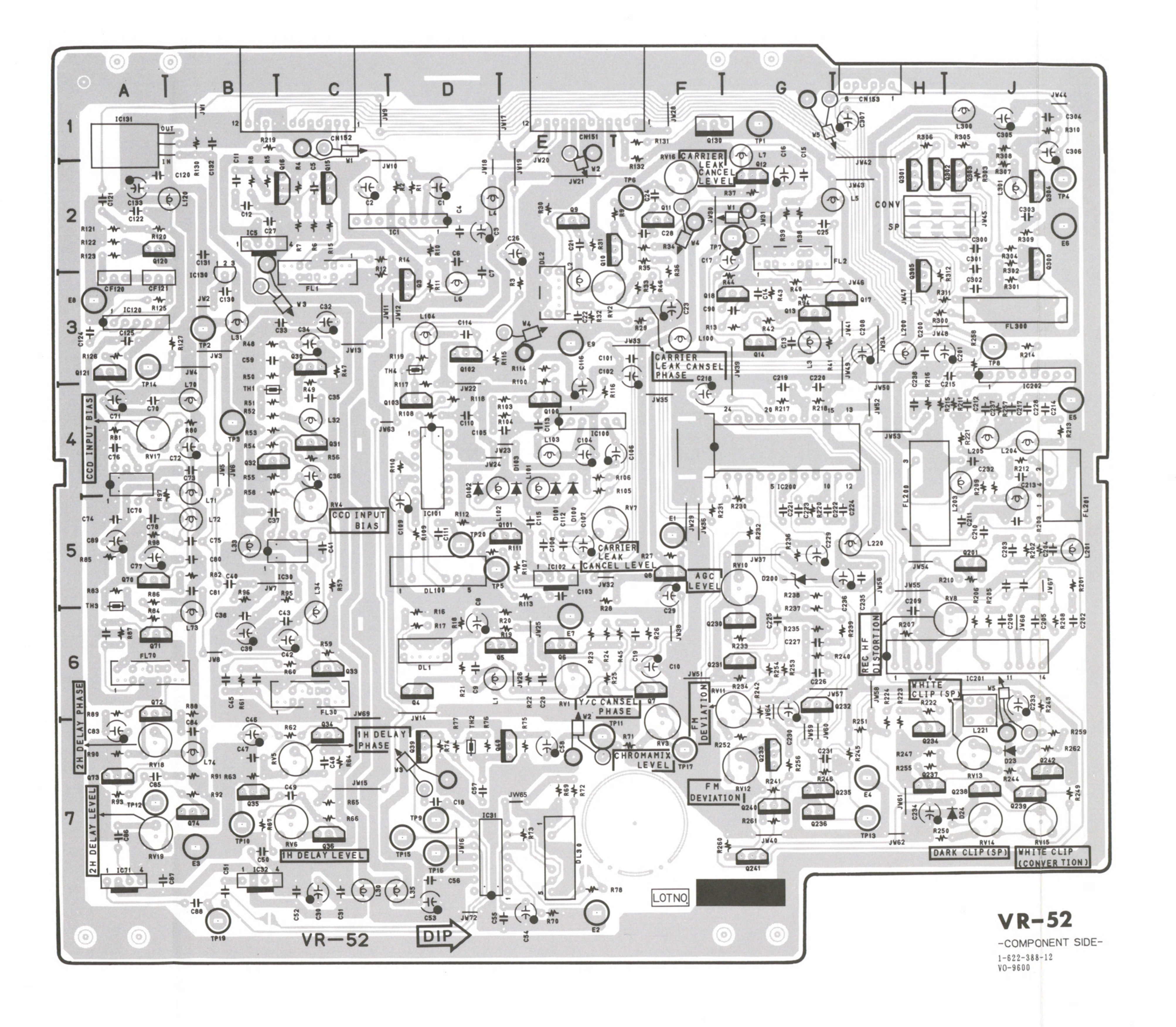


VR-52: Y/C MODULATOR

UC; S/N 11351 and higher
J; S/N 10201 and higher

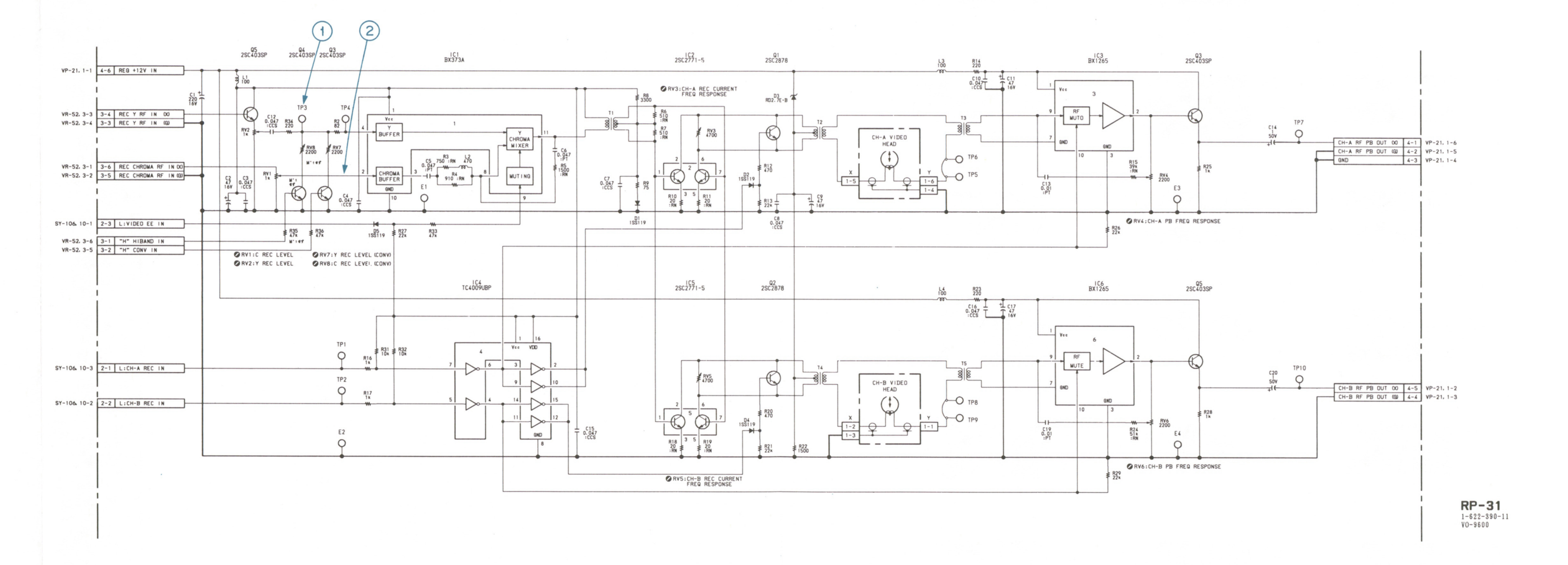
VR-52 (1-622-388-12)

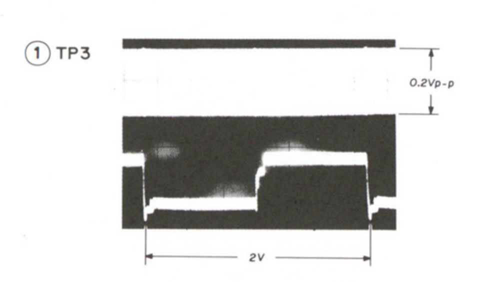
CF120	A-3	Q3	D-3	Q303	J-2
CF121	A-3	Q4	D-6	Q304	J-2
		Q5	D-6	Q305	H-3
CN151	E-1	Q6	E-6		
CN152	C-1	Q7	F-6	RV1	E-6
CN153	H-1	Q8	F-5	RV2	E-3
		Q9	E-2	RV3	F-6
D23	J-7	Q10	F-2	RV4	C-5
D24	J-7	Q11	F-2	RV5	C-7
D100	E-4	Q12	G-2	RV6	C-7
D101	E-4	Q13	G-3	RV7	E-5
D102	D-4	Q14	G-3	RV8	J-6
D103	E-4	Q15	C-2	RV10	G-5
D200	G-5	Q16	C-2	RV11	G-6
		Q17	H-3	RV12	G-7
DL1	D-6	Q18	G-3	RV13	J-7
DL2	E-3	Q30	C-3	RV14	J-7
DL30	E-7	Q31	C-4	RV15	J-7
DL100	D-5	Q32	B-4	RV16	F-2
		Q33	C-6	RV17	A-4
E1	F-5	Q34	C-7	RV18	A-7
E2	E-7	Q35	B-7	RV19	A-7
E3	B-7	Q36	C-7		
E4	H-7	Q39	D-7	TH1	B-4
E5	J-4	Q40	E-7	TH2	D-7
E6	J-2	Q70	A-5	TH3	A-5
E7	E-6	Q71	A-6	TH4	D-3
E8	A-3	Q72	A-6		
E9	E-3	Q73	A-7	TP1	G-1
		Q74	B-7	TP2	B-3
FL1	C-2	Q100	E-4	TP3	B-4
FL2	G-2	Q101	E-5	TP4	J-2
FL30	C-6	Q102	D-3	TP5	D-5
FL70	A-6	Q103	D-4	TP6	F-2
FL200	H-4	Q120	A-2	TP8	J-3
FL201	J-4	Q121	A-3	TP9	D-7
FL300	J-3	Q130	F-1	TP10	B-7
		Q201	J-5	TP11	E-7
IC1	D-2	Q230	G-6	TP12	A-7
IC5	B-2	Q231	G-6	TP13	H-7
IC30	C-5	Q232	G-6	TP14	A-3
IC31	D-7	Q233	G-7	TP15	D-7
IC32	B-7	Q234	H-7	TP16	D-7
IC70	A-4	Q235	G-7	TP17	F-7
IC71	A-7	Q236	G-7	TP19	B-7
IC100	E-4	Q237	H-7	TP20	D-5
IC101	D-4	Q238	J-7		
IC102	E-5	Q239	J-7		
IC120	A-3	Q240	G-7		
IC130	B-3	Q241	G-7		
IC131	A-1	Q242	J-7		
IC200	G-4	Q300	J-2		
IC201	J-6	Q301	H-2		
IC202	J-3	Q302	H-2		

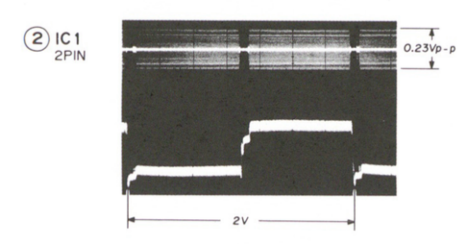


RP-31: REC/PB AMPLIFIER

UC; S/N 10001 thru 10250
J; S/N 10001 thru 10050

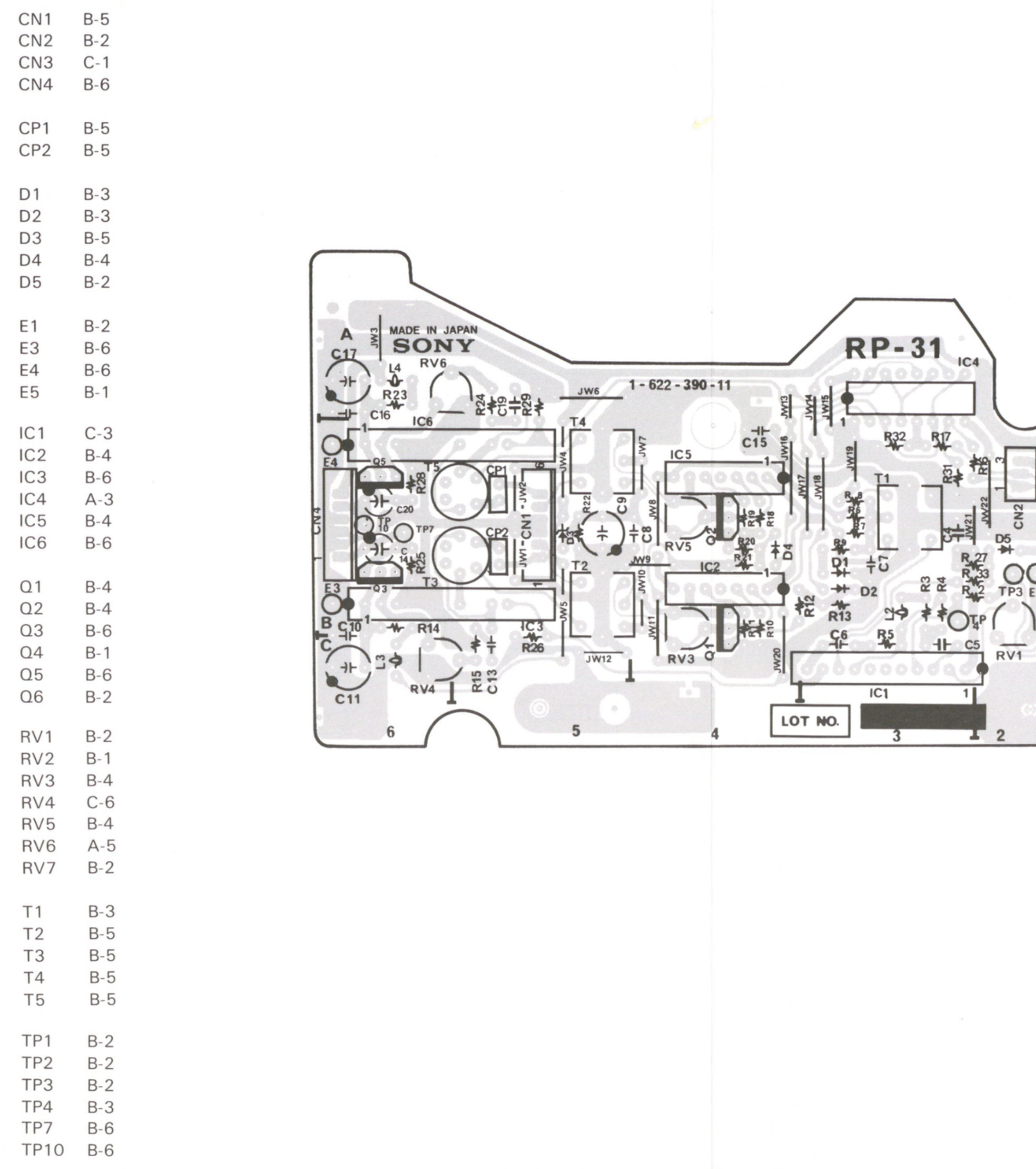






RP-31: REC/PB AMPLIFIER

UC; S/N 10001 thru 10250
J; S/N 10001 thru 10050



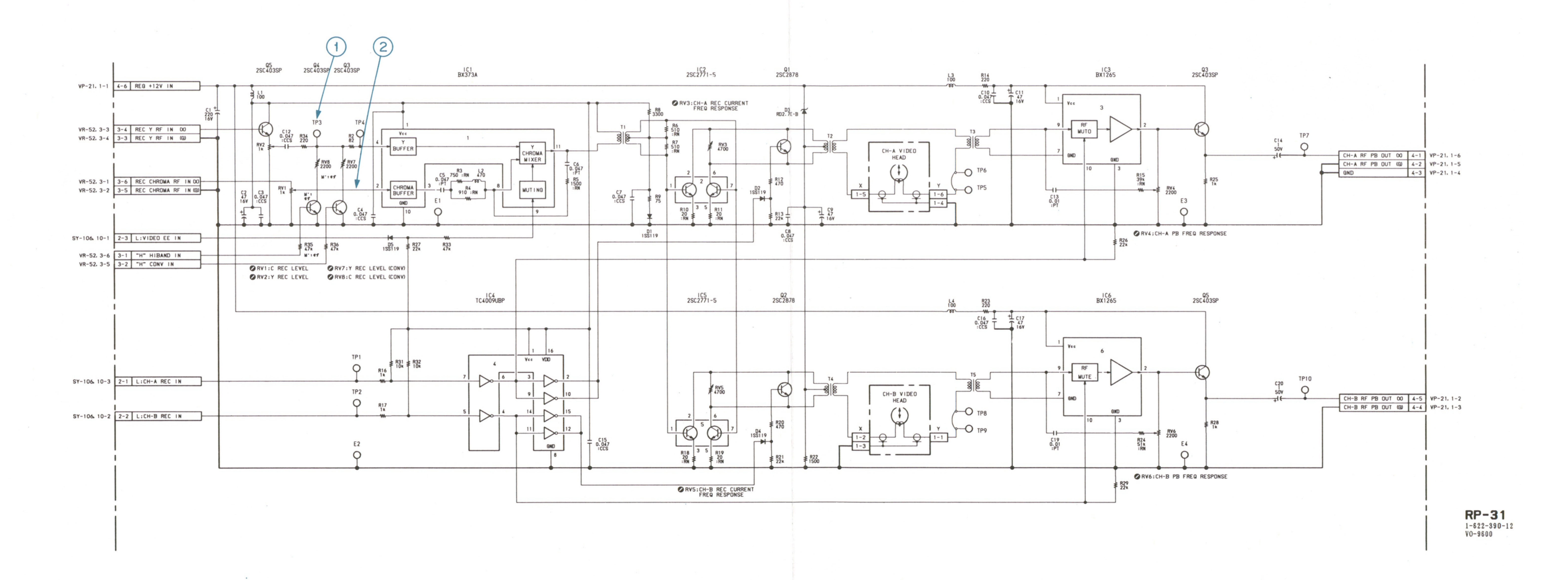
RP-31 (1-622-390-11)

CN1	B-5
CN2	B-2
CN3	C-1
CN4	B-6
CP1	B-5
CP2	B-5
D1	B-3
D2	B-3
D3	B-5
D4	B-4
D5	B-2
E1	B-2
E3	B-6
E4	B-6
E5	B-1
IC1	C-3
IC2	B-4
IC3	B-6
IC4	A-3
IC5	B-4
IC6	B-6
Q1	B-4
Q2	B-4
Q3	B-6
Q4	B-1
Q5	B-6
Q6	B-2
RV1	B-2
RV2	B-1
RV3	B-4
RV4	C-6
RV5	B-4
RV6	A-5
RV7	B-2
T1	B-3
T2	B-5
T3	B-5
T4	B-5
T5	B-5
TP1	B-2
TP2	B-2
TP3	B-2
TP4	B-3
TP7	B-6
TP10	B-6
W1	B-1

RP-31
-COMPONENT SIDE-
1-622-390-11
VO-9600

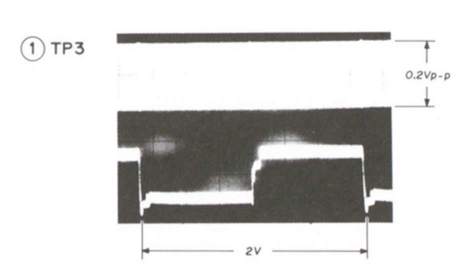
RP-31: REC/PB AMPLIFIER

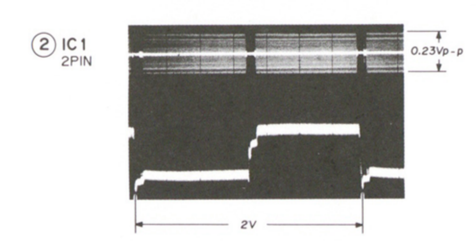
UC; S/N 10251 and higher
J; S/N 10051 and higher



RP-31: REC/PB AMPLIFIER

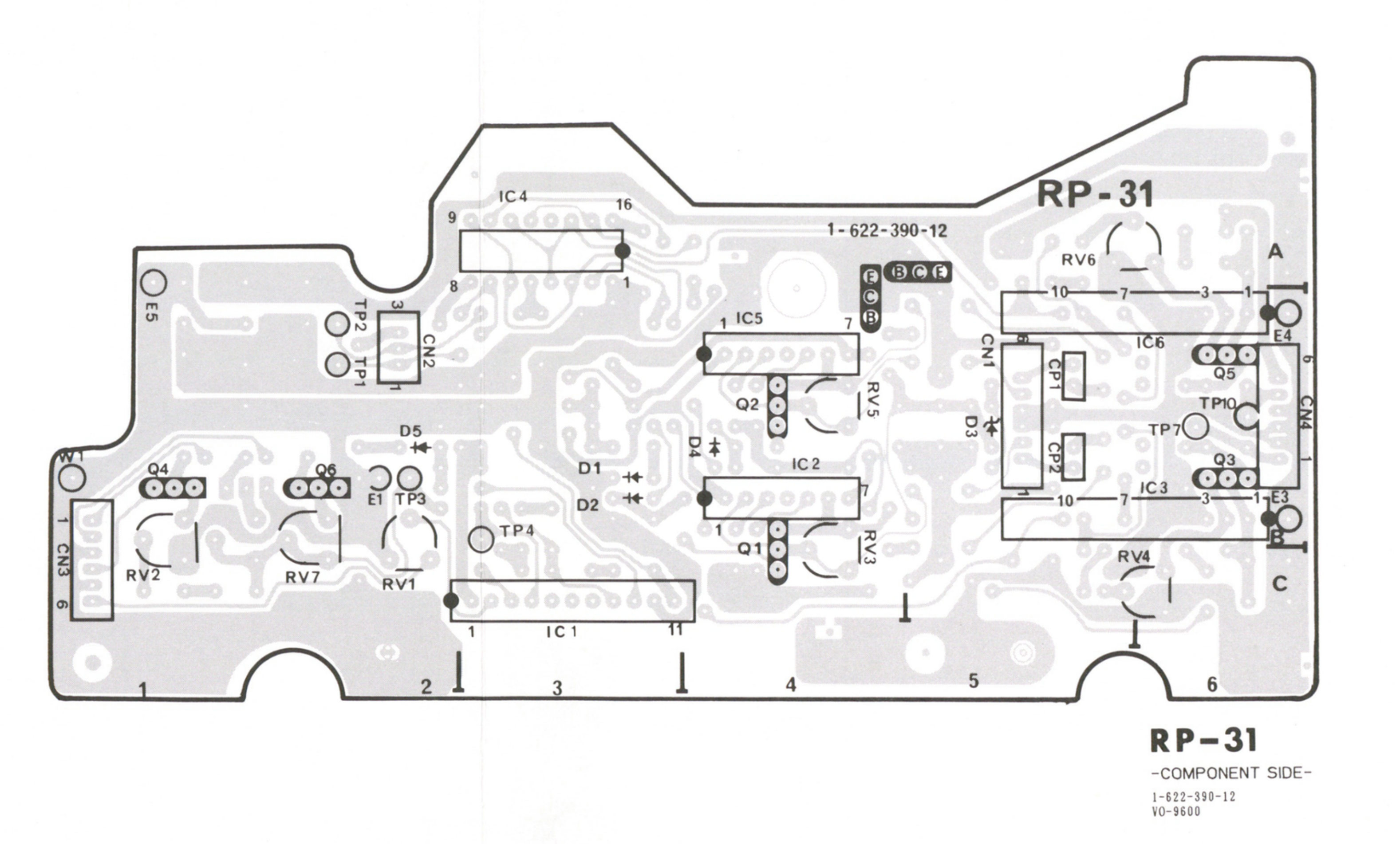
UC; S/N 10251 and higher
J; S/N 10051 and higher





RP-31 (1-622-390-12)

CN1	B-5
CN2	B-2
CN3	C-1
CN4	B-6
CP1	B-5
CP2	B-5
D1	B-3
D2	B-3
D3	B-5
D4	B-4
D5	B-2
E1	B-2
E3	B-6
E4	B-6
E5	B-1
IC1	C-3
IC2	B-4
IC3	B-6
IC4	A-3
IC5	B-4
IC6	B-6
Q1	B-4
Q2	B-4
Q3	B-6
Q4	B-1
Q5	B-6
Q6	B-2
RV1	B-2
RV2	B-1
RV3	B-4
RV4	C-6
RV5	B-4
RV6	A-5
RV7	B-2
T1	B-3
T2	B-5
T3	B-5
T4	B-5
T5	B-5
TP1	B-2
TP2	B-2
TP3	B-2
TP4	B-3
TP7	B-6
TP10	B-6
W1	B-1

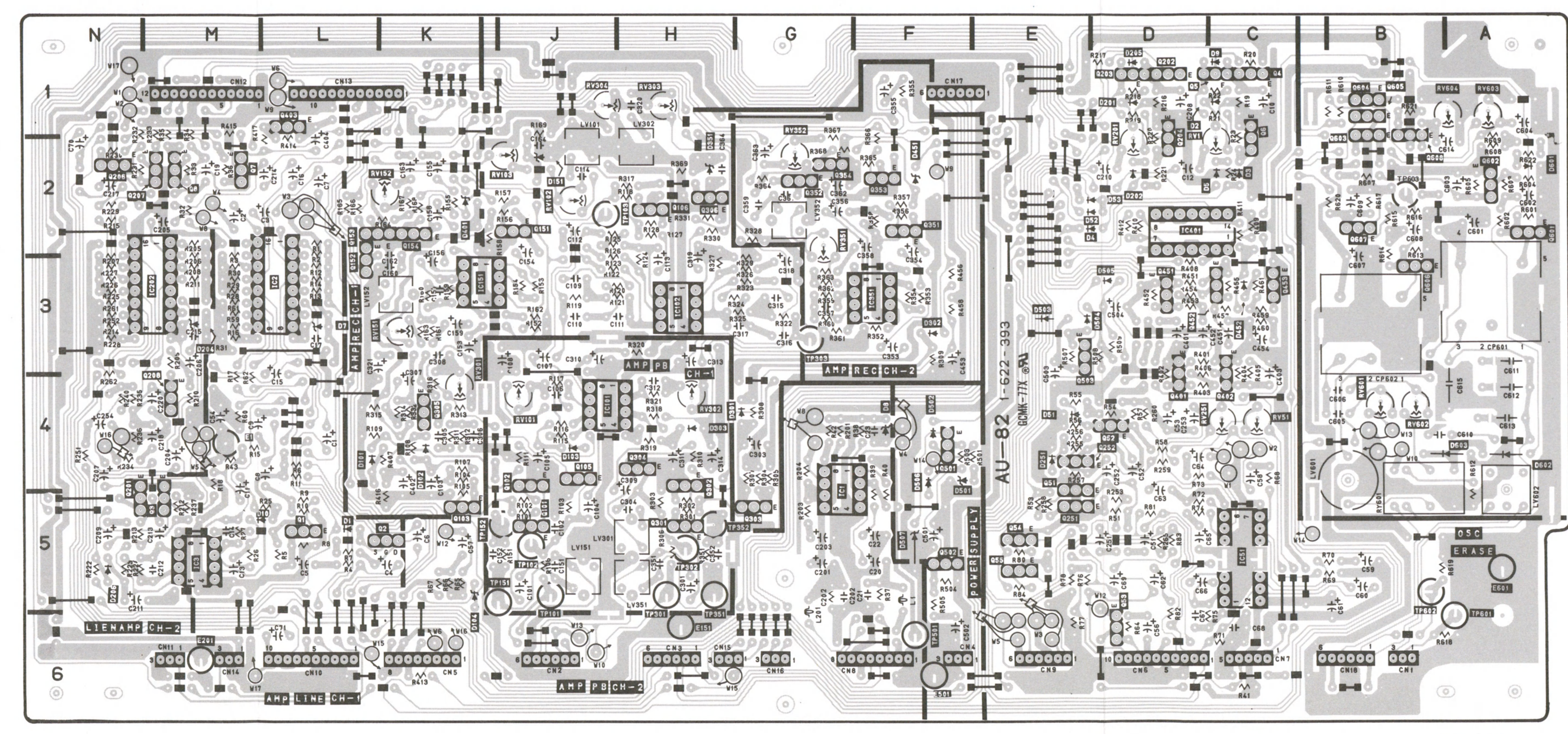


AU-82: PB AMPLIFIER

UC; S/N 10001 thru 10250
J; S/N 10001 thru 10050

AU-82 (1-622-393-11)

CN1	B-6	D503	E-3	Q151	J-2	RV304	J-1
CN2	J-6	D504	E-3	Q152	L-3	RV351	G-2
CN3	H-6	D505	D-3	Q153	L-2	RV352	G-2
CN4	F-6	D506	F-4	Q154	K-2	RV601	B-4
CN5	K-6	D507	F-5	Q201	N-5	RV602	B-4
CN6	D-6	D601	A-2	Q202	D-1	RV603	A-1
CN7	C-6	D602	A-4	Q203	D-1	RV604	A-1
CN8	F-6	D603	B-4	Q204	D-2		
CN9	E-6			Q205	D-1	RY601	B-5
CN10	L-6	E1	M-4	Q206	N-2		
CN11	M-6	E151	H-6	Q207	M-2	TP101	J-5
CN12	M-1	E201	M-6	Q208	M-4	TP102	J-5
CN13	L-1	E501	F-5	Q251	E-5	TP103	J-2
CN14	M-6	E601	A-5	Q252	E-4	TP151	J-5
CN15	H-6			Q301	H-5	TP152	J-5
CN16	G-6	IC1	G-5	Q302	H-4	TP301	H-5
CN17	F-1	IC2	L-3	Q303	G-5	TP302	H-5
CN18	B-6	IC3	M-5	Q304	H-4	TP303	G-3
		IC51	C-5	Q305	K-4	TP351	H-5
CP601	A-3	IC101	J-4	Q306	H-2	TP352	H-5
CP602	B-3	IC102	H-3	Q351	F-2	TP501	F-6
		IC151	K-3	Q352	G-2	TP601	A-6
D1	L-5	IC202	M-3	Q353	F-2	TP602	B-5
D2	C-1	IC351	F-3	Q354	G-2	TP603	B-2
D3	C-2	IC401	D-2	Q401	D-4		
D4	D-2			Q402	C-4		
D5	C-2	LV101	J-2	Q403	L-1		
D7	L-3	LV151	J-5	Q451	D-3		
D8	F-4	LV152	K-3	Q452	C-3		
D9	C-1	LV301	H-5	Q453	C-3		
D10	M-5	LV302	H-2	Q501	F-4		
D51	E-4	LV351	H-5	Q502	F-5		
D52	D-2	LV352	G-2	Q503	E-3		
D53	D-2	LV601	B-4	Q601	A-2		
D101	L-4	LV602	A-4	Q602	A-2		
D102	K-4			Q603	B-2		
D103	J-4	Q1	L-5	Q604	B-1		
D104	K-5	Q2	L-5	Q605	B-1		
D151	J-2	Q3	M-5	Q606	B-3		
D201	D-1	Q4	C-1	Q607	B-2		
D202	D-2	Q5	C-1	Q608	B-2		
D204	M-3	Q6	C-2				
D205	D-1	Q7	M-2	RV1	C-2		
D206	N-5	Q8	M-2	RV51	C-4		
D251	E-4	Q34	E-5	RV101	J-4		
D301	G-4	Q51	E-4	RV102	J-2		
D302	F-3	Q52	D-4	RV103	J-2		
D303	H-4	Q53	D-6	RV151	K-3		
D351	H-2	Q55	E-5	RV152	K-2		
D401	K-2	Q101	J-5	RV201	D-2		
D451	F-2	Q102	J-4	RV251	C-4		
D452	C-3	Q103	K-5	RV301	K-4		
D501	F-4	Q105	J-4	RV302	H-4		
D502	F-4	Q106	H-2	RV303	H-1		



AU-82
-COMPONENT SIDE-
1-622-393-11
VU-9600

AU-82: PB AMPLIFIER


UC; S/N 10001 thru 10250
J; S/N 10001 thru 10050

IF-132, 5-3	11-1	L;RX JACK IN
IF-132, 5-2	11-2	RX DATA IN/OUT (G)
IF-132, 5-1	11-3	RX DATA IN/OUT (X)
CP-112, C	10-3	CH1 AUDIO IN (X)
NC	10-2	———
CP-112, A	10-1	CH1 AUDIO IN (G)
MT-29, ②	9-1	CH1 REC VR OUT (X)
MT-29, ⑨	9-2	CH1 REC VR IN (Y)
MT-29, ⓪	9-3	CH1 REC VR (G)
MC-28, 1-1	8-8	CH1 MIC IN (X)
MC-28, 1-2	8-7	CH-1 MIC IN (Y)
MC-28, 1-3	8-6	CH1 MIC IN (G)
MC-28, 1-4	8-5	L;CH1 MIC IN
H1003 (1/3) AUDIO CH-1	2-1	CH1 R/P HEAD (Y)
	2-2	CH1 R/P HEAD (X)
	2-3	CH1 R/P HEAD (G)
CP-112, F	10-6	CH2 AUDIO IN (X)
NC	10-5	———
CP-112, D	10-4	CH2 AUDIO IN (G)
MC-28, 1-6	8-3	CH2 MIC IN (X)
MC-28, 1-7	8-2	CH2 MIC IN (Y)
MC-28, 1-8	8-1	CH2 MIC IN (G)
MC-28, 1-5	8-4	L;CH2 MIC IN
MT-29, ②	9-6	CH2 REC VR OUT (X)
MT-29, ⑨	9-5	CH2 REC VR IN (Y)
MT-29, ⓪	9-4	CH2 REC VR (G)
VP-21, 6-8	5-1	TV AUDIO IN (X)
VP-21, 6-7	5-2	TV AUDIO IN (G)
H1003 (2/3) AUDIO CH-2	2-4	CH2 R/P HEAD (Y)
	2-5	CH2 R/P HEAD (X)
	2-6	CH2 R/P HEAD (G)

RV1: CH-1 LIMITER LEVEL
RV51: CH-1 LEVEL METER
RV101: CH-1 PB FREQ RESPONSE (7KHz)
RV102: CH-1 PB FREQ RESPONSE (15KHz)
LV101: CH-1 PB EQ
RV103: CH-1 PB LEVEL
LV151: CH-1 BIAS TRAP
RV151: CH-1 REC EQ
LV152: CH-1 REC EQ
RV152: CH-1 REC LEVEL
RV201: CH-2 LIMITER LEVEL
RV251: CH-2 LEVEL METER
RV603: REC BIAS CURRENT (CONVENTIONAL)
LV301: DUB BIAS TRAP
RV301: CROSS TALK CANCELER LEVEL
RV302: CH-2 PB FREQ RESPONSE (7KHz)
RV303: CH-2 PB FREQ RESPONSE (15KHz)
RV304: CH-2 PB LEVEL
LV302: CH-2 PB EQ
LV351: CH-2 BIAS TRAP
RV351: CH-2 REC EQ
LV352: CH-2 REC EQ
RV352: CH-2 REC LEVEL
LV602: DUB DUMMY COIL
RV601: CH-1 REC BIAS CURRENT (SP)
RV602: CH-2 REC BIAS CURRENT (SP)
LV601: AUDIO ERASE OSC FREQ

CH1 DOLBY SIG OUT (X)	12-9	AU-89, 2-4
CH1 DOLBY SIG IN (Y)	12-10	AU-89, 2-3
CH1 DOLBY SIG (G)	12-8	AU-89, 2-5
CH1 METER OUT	7-1	MT-29, ①
REG +12V IN	4-1	DC-31, 4-3
GND	4-2	DC-31, 4-2
GND	4-3	DC-31, 4-1
REG +12V OUT	13-4	AU-89, 3-12
GND	13-5	AU-89, 3-11
REG +12V OUT	14-1	CP-112, K
GND	14-2	CP-112, L
AUDIO MUTE OUT	14-3	CP-112, M
L;CH1 EE OUT	13-1	AU-89, 3-10
L;CH2 EE OUT	13-2	AU-89, 3-9
CH1 REC OUT	13-3	AU-89, 3-8
SP OUT	13-6	AU-89, 3-7
	6-2	NC
CH1 HEADPHONES OUT (X)	6-9	KY-105, 9-2
CH1 MONITOR OUT (G)	6-5	KY-105, 9-6
CH1 MONITOR OUT (X)	6-6	KY-105, 9-5
MONITOR SELECT IN (G)	6-7	KY-105, 9-4
MONITOR SELECT IN (X)	6-8	KY-105, 9-3
AUDIO MONITOR OUT (X)	5-8	VP-21, 6-1
AUDIO MONITOR OUT (G)	5-7	VP-21, 6-2
METER LAMP OUT	7-3	MT-29, ③
GND	7-5	MT-29, ⓪
LIMITER OFF IN	7-4	MT-29, ④
CH1 DOLBY DET OUT (X)	13-7	AU-89, 3-6
CH1 DOLBY DET OUT (G)	13-8	AU-89, 3-5
CH2 DOLBY DET OUT (X)	13-9	AU-89, 3-4
CH2 DOLBY DET OUT (G)	13-10	AU-89, 3-3
VIDEO MUTE IN	5-3	VP-21, 6-6
SP TAPE IN	5-4	VP-21, 6-5
SEARCH X2 IN	5-5	VP-21, 6-4
AUDIO DUB OUT	5-6	VP-21, 6-3
CH1 LINE OUT (X)	10-8	CP-112, H
CH1 LINE OUT (G)	10-7	CP-112, G
CH2 LINE OUT (X)	10-10	CP-112, J
CH2 LINE OUT (G)	10-9	CP-112, I
CH2 DOLBY SIG OUT (X)	12-4	AU-89, 2-9
CH2 DOLBY SIG IN (Y)	12-3	AU-89, 2-10
CH2 DOLBY SIG (G)	12-5	AU-89, 2-8
CH2 METER OUT	7-2	MT-29, ②
CH2 HEADPHONES OUT (X)	6-10	KY-105, 9-1
CH2 MONITOR OUT (G)	6-3	KY-105, 9-8
CH2 MONITOR OUT (X)	6-4	KY-105, 9-7
TV IN	6-1	KY-105, 9-10
RX DATA REC IN	3-1	SY-106, 5-6
L;AUDIO CH1 REC IN	3-2	SY-106, 5-5
L;AUDIO CH2 REC IN	3-3	SY-106, 5-4
L;AUDIO CH1 EE IN	3-5	SY-106, 5-2
L;AUDIO CH2 EE IN	3-4	SY-106, 5-3
L;AUDIO MUTE IN	3-6	SY-106, 5-1
CH1 REC SIG IN (X)	12-11	AU-89, 2-2
CH1 DOLBY PILOT IN (X)	12-7	AU-89, 2-6
CH1 REC SIG IN (G)	12-12	AU-89, 2-1
CH2 REC SIG IN (G)	12-1	AU-89, 2-12
CH2 DOLBY PILOT IN (X)	12-6	AU-89, 2-7
CH2 REC SIG IN (X)	12-2	AU-89, 2-11
CTL IN (X)	15-1	SV-93, 9-3
CTL IN (G)	15-2	SV-93, 9-2
L:SERVO LOCK ON IN	15-3	SV-93, 9-1
SP IN	16-1	KY-105, 12-3
DOLBY LED ON IN	16-2	KY-105, 12-2
DOLBY SW ON IN	16-3	KY-105, 12-1
CTL IN (X)	17-4	AU-89, 1-3
CTL IN (G)	17-5	AU-89, 1-2
L;SERVO LOCK ON OUT	17-6	AU-89, 1-1
———	17-1	AU-89, 1-6
DOLBY LED ON OUT	17-2	AU-89, 1-5
DOLBY SW ON OUT	17-3	AU-89, 1-4
FULL ERASE HEAD (X)	1-3	H1002 FULL ERASE
FULL ERASE HEAD (Y)	1-2	
FULL ERASE HEAD (G)	1-1	
CH1 ERASE HEAD (G)	18-3	
CH2 ERASE HEAD (G)	18-6	
CH2 ERASE HEAD (Y)	18-5	H1003 (3/3) CH-2 ERASE
CH2 ERASE HEAD (X)	18-4	
CH1 ERASE HEAD (X)	18-1	CH-1 ERASE
CH1 ERASE HEAD (Y)	18-2	
VIDEO MUTE OUT	13-11	AU-89, 3-2
CH-2 REC OUT	13-12	AU-89, 3-1

AU-82
1-622-393-11
VO-9600



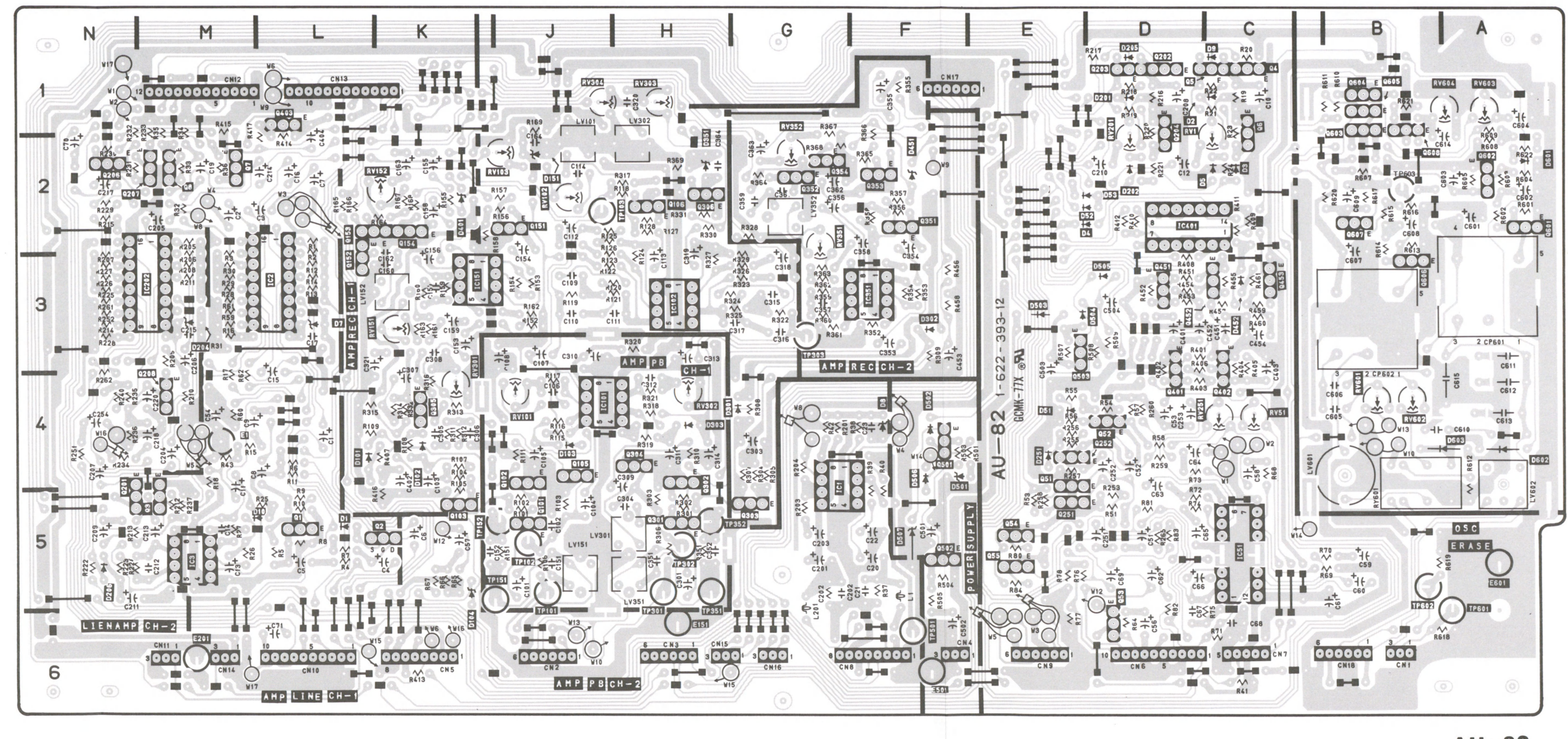
REF.	R59	R61	R62	R164	R252	R261	R262	R365
A	22K	10K	10K	47K	22K	10K	10K	47K
B	10K	4.7K	4.7K	18K	10K	4.7K	4.7K	18K

AU-82: PB AMPLIFIER

UC; S/N 10251 thru 11350
J; S/N 10051 thru 10200

AU-82 (1-622-393-12)

CN1	B-6	D503	E-3	Q151	J-2	RV304	J-1
CN2	J-6	D504	E-3	Q152	L-3	RV351	G-2
CN3	H-6	D505	D-3	Q153	L-2	RV352	G-2
CN4	F-6	D506	F-4	Q154	K-2	RV601	B-4
CN5	K-6	D507	F-5	Q201	N-5	RV602	B-4
CN6	D-6	D601	A-2	Q202	D-1	RV603	A-1
CN7	C-6	D602	A-4	Q203	D-1	RV604	A-1
CN8	F-6	D603	B-4	Q204	D-2		
CN9	E-6			Q205	D-1	RY601	B-5
CN10	L-6	E1	M-4	Q206	N-2		
CN11	M-6	E151	H-6	Q207	M-2	TP101	J-5
CN12	M-1	E201	M-6	Q208	M-4	TP102	J-5
CN13	L-1	E501	F-5	Q251	E-5	TP103	J-2
CN14	M-6	E601	A-5	Q252	E-4	TP151	J-5
CN15	H-6			Q301	H-5	TP152	J-5
CN16	G-6	IC1	G-5	Q302	H-4	TP301	H-5
CN17	F-1	IC2	L-3	Q303	G-5	TP302	H-5
CN18	B-6	IC3	M-5	Q304	H-4	TP303	G-3
		IC51	C-5	Q305	K-4	TP351	H-5
CP601	A-3	IC101	J-4	Q306	H-2	TP352	H-5
CP602	B-3	IC102	H-3	Q351	F-2	TP501	F-6
		IC151	K-3	Q352	G-2	TP601	A-6
D1	L-5	IC202	M-3	Q353	F-2	TP602	B-5
D2	C-1	IC351	F-3	Q354	G-2	TP603	B-2
D3	C-2	IC401	D-2	Q401	D-4		
D4	D-2			Q402	C-4		
D5	C-2	LV101	J-2	Q403	L-1		
D7	L-3	LV151	J-5	Q451	D-3		
D8	F-4	LV152	K-3	Q452	C-3		
D9	C-1	LV301	H-5	Q453	C-3		
D10	M-5	LV302	H-2	Q501	F-4		
D51	E-4	LV351	H-5	Q502	F-5		
D52	D-2	LV352	G-2	Q503	E-3		
D53	D-2	LV601	B-4	Q601	A-2		
D101	L-4	LV602	A-4	Q602	A-2		
D102	K-4			Q603	B-2		
D103	J-4	Q1	L-5	Q604	B-1		
D104	K-5	Q2	L-5	Q605	B-1		
D151	J-2	Q3	M-5	Q606	B-3		
D201	D-1	Q4	C-1	Q607	B-2		
D202	D-2	Q5	C-1	Q608	B-2		
D204	M-3	Q6	C-2				
D205	D-1	Q7	M-2	RV1	C-2		
D206	N-5	Q8	M-2	RV51	C-4		
D251	E-4	Q34	E-5	RV101	J-4		
D301	G-4	Q51	E-4	RV102	J-2		
D302	F-3	Q52	D-4	RV103	J-2		
D303	H-4	Q53	D-6	RV151	K-3		
D351	H-2	Q55	E-5	RV152	K-2		
D401	K-2	Q101	J-5	RV201	D-2		
D451	F-2	Q102	J-4	RV251	C-4		
D452	C-3	Q103	K-5	RV301	K-4		
D501	F-4	Q105	J-4	RV302	H-4		
D502	F-4	Q106	H-2	RV303	H-1		



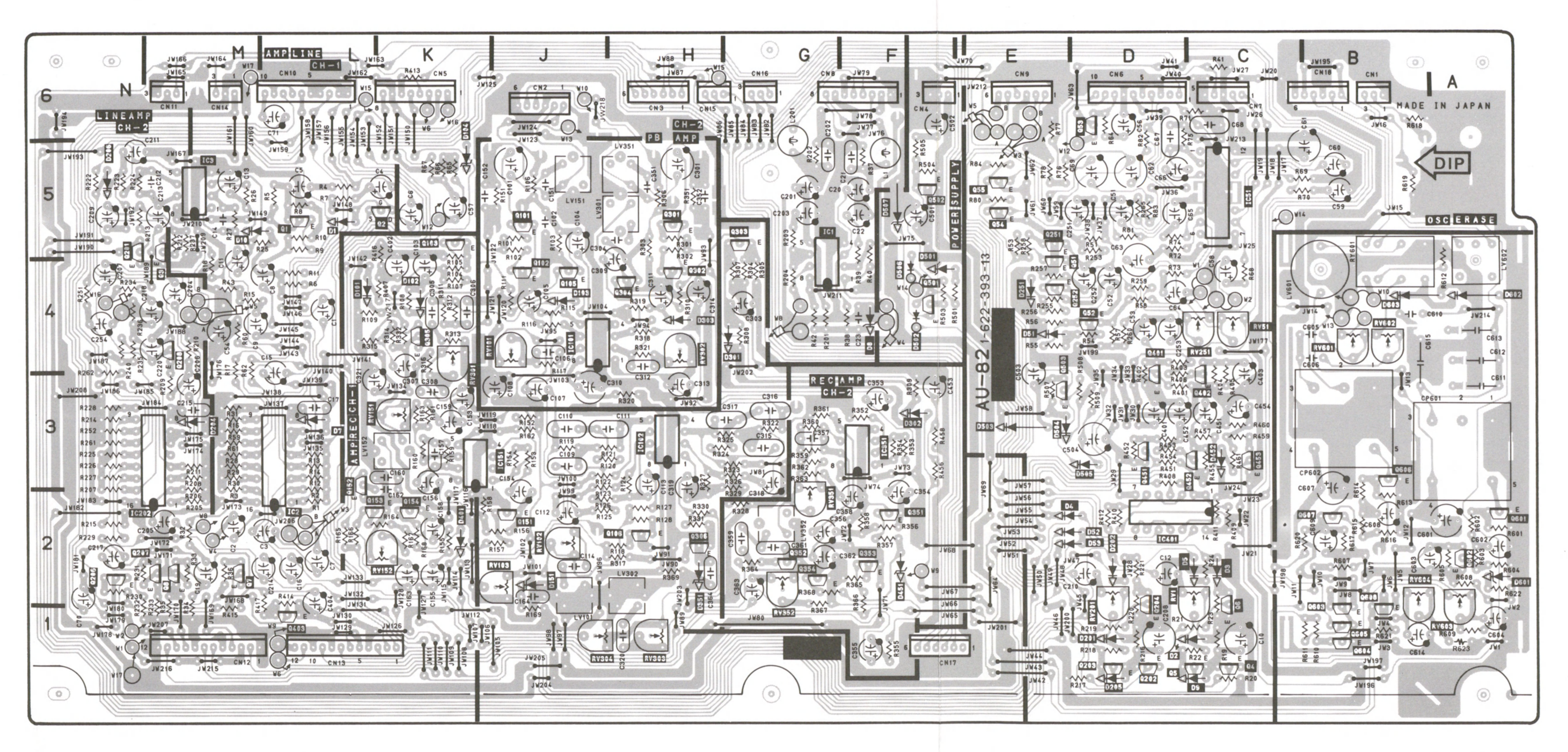
AU-82
-COMPONENT SIDE-
1-622-393-12
VO-9600

AU-82: PB AMPLIFIER


UC; S/N 11351 and higher
J; S/N 10201 and higher

AU-82 (1-622-393-13)

CN1	B-6	D504	E-3	Q203	D-1
CN2	J-6	D505	D-3	Q204	D-2
CN3	H-6	D506	F-4	Q206	N-2
CN4	F-6	D507	F-5	Q207	M-2
CN5	K-6	D5O3	E-3	Q208	M-4
CN6	D-6	D601	A-2	Q251	E-5
CN7	C-6	D602	A-4	Q252	E-4
CN8	F-6	D603	B-4	Q301	H-5
CN9	E-6			Q302	H-4
CN10	L-6	IC1	G-4	Q303	G-5
CN11	M-6	IC2	L-3	Q304	H-4
CN12	M-1	IC3	M-5	Q305	K-4
CN13	L-1	IC51	C-5	Q306	H-2
CN14	M-6	IC101	J-4	Q351	F-2
CN15	H-6	IC102	H-3	Q352	G-2
CN16	G-6	IC151	K-3	Q353	F-2
CN17	F-1	IC202	M-3	Q354	G-2
CN18	B-6	IC351	F-3	Q401	D-3
		IC401	D-2	Q402	C-3
CP601	A-3			Q403	L-1
CP602	B-3	LV101	J-2	Q451	D-3
		LV151	J-5	Q452	C-3
D1	L-5	LV152	K-3	Q453	C-3
D2	C-1	LV301	H-5	Q501	F-4
D3	C-2	LV302	H-2	Q502	F-5
D4	E-2	LV351	H-5	Q503	E-3
D5	C-2	LV352	G-2	Q601	A-2
D7	L-3	LV601	B-4	Q602	A-2
D8	F-4	LV602	A-4	Q603	B-1
D9	C-1			Q604	B-1
D10	M-5	Q1	L-5	Q605	B-1
D51	E-4	Q2	K-5	Q606	B-3
D52	E-2	Q3	M-5	Q607	B-2
D53	E-2	Q4	C-1	Q608	B-1
D101	L-4	Q5	C-1		
D102	K-4	Q6	C-1	RV1	C-1
D103	J-4	Q7	M-2	RV51	C-4
D104	K-5	Q8	M-2	RV101	J-4
D151	J-2	Q51	E-4	RV102	J-2
D152	L-3	Q52	D-4	RV103	J-2
D201	D-1	Q53	D-6	RV151	K-3
D202	D-2	Q54	E-5	RV152	K-2
D204	M-3	Q55	E-5	RV201	D-1
D205	D-1	Q59	D-6	RV251	C-4
D206	N-5	Q101	J-5	RV301	K-4
D251	E-4	Q102	J-4	RV302	H-4
D301	G-4	Q103	K-5	RV303	H-1
D302	F-3	Q105	J-4	RV304	J-1
D303	H-4	Q106	H-2	RV351	G-2
D351	H-2	Q151	J-2	RV352	G-2
D401	K-2	Q152	L-3	RV601	B-4
D451	F-2	Q153	K-2	RV602	B-4
D452	C-3	Q154	K-2	RV603	A-2
D501	F-4	Q201	N-5	RV604	B-2
D502	F-4	Q202	D-1		
				RY601	B-4

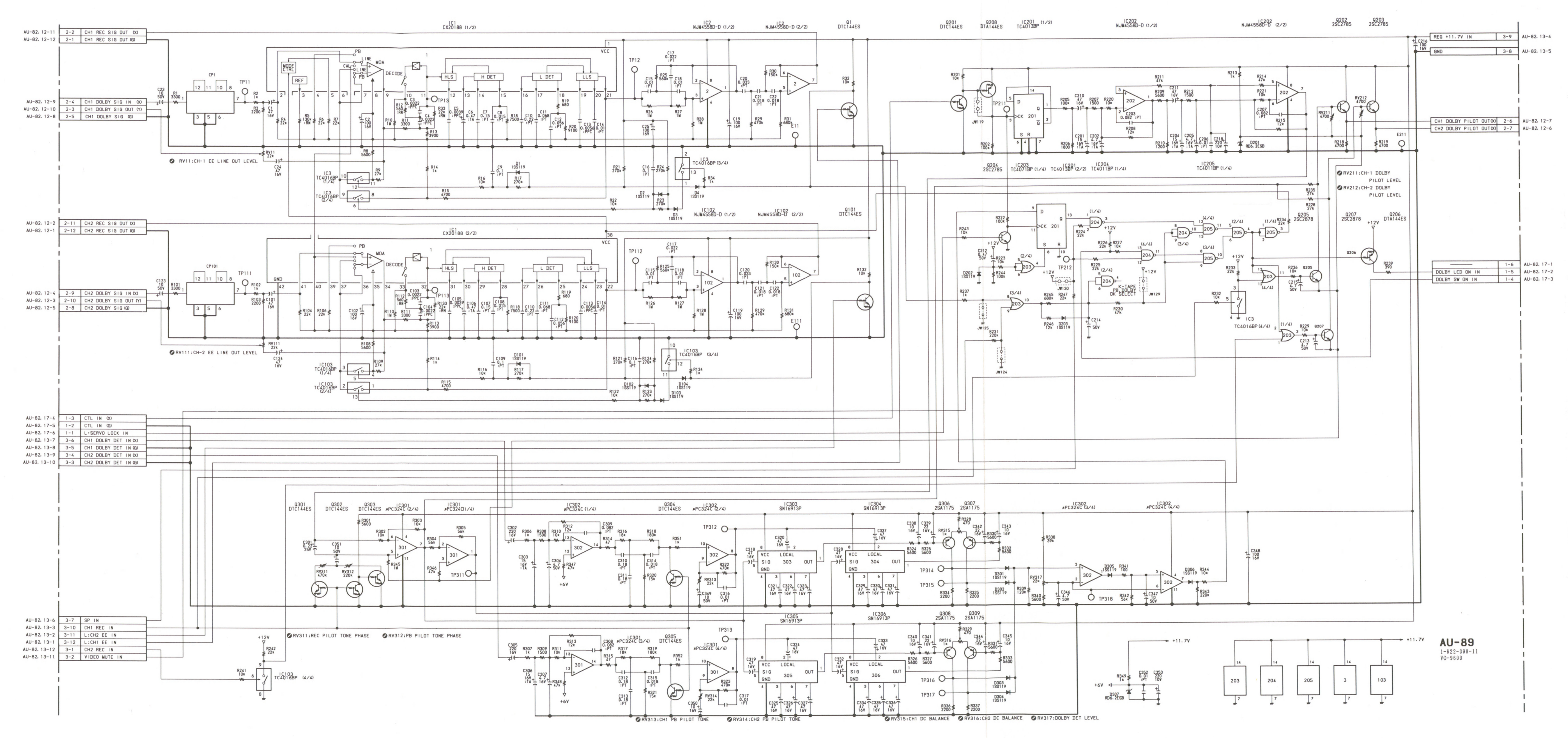


AU-82
-COMPONENT SIDE-
1-622-393-13
VO-9600


AU-82: PB AMPLIFIER
UC; S/N 11351 and higher
J; S/N 10201 and higher
* NOTE
• R623 is added from S/N 11351 thru 11870 (UC) and S/N 10201 thru 10230 (J).
REF. | R59 | R61 | R62 | R164 | R252 | R261 | R262 | R365
A | 22K | 10K | 10K | 47K | 22K | 10K | 10K | 47K
B | 10K | 4.7K | 4.7K | 18K | 10K | 4.7K | 4.7K | 18K
A: S/N 10001 thru 11350 (UC)
10001 thru 10200 (J)
B: S/N 11351 and higher (UC)
10201 and higher (J)
H1003(3/3)
CH-2
ERASE
CH-1
ERASE
AU-82
1-622-393-13
VO-9600

AU-89: DOLBY

UC; S/N 10001 thru 10250
J; S/N 10001 thru 10050

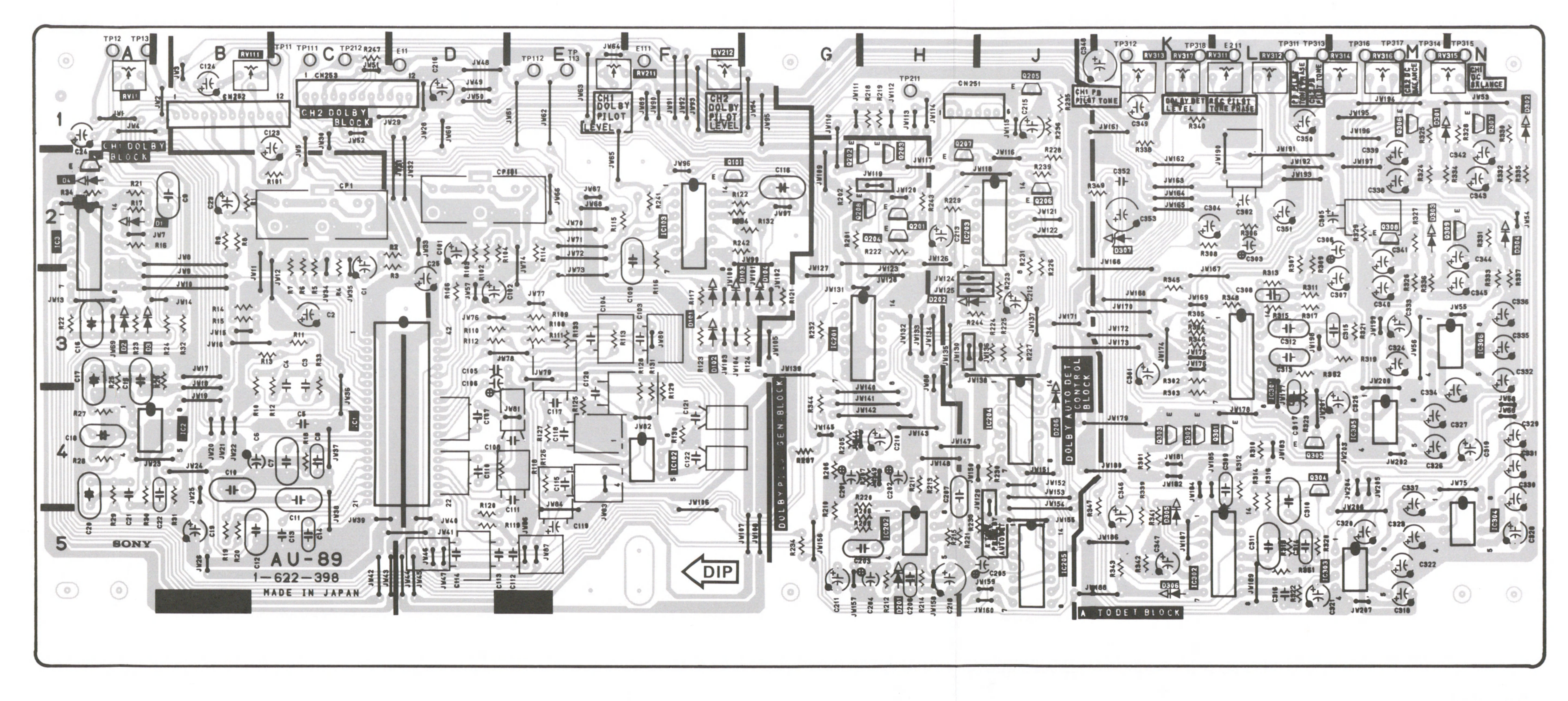


AU-89: DOLBY

UC; S/N 10001 thru 10250
J; S/N 10001 thru 10050

AU-89 (1-622-398-11)

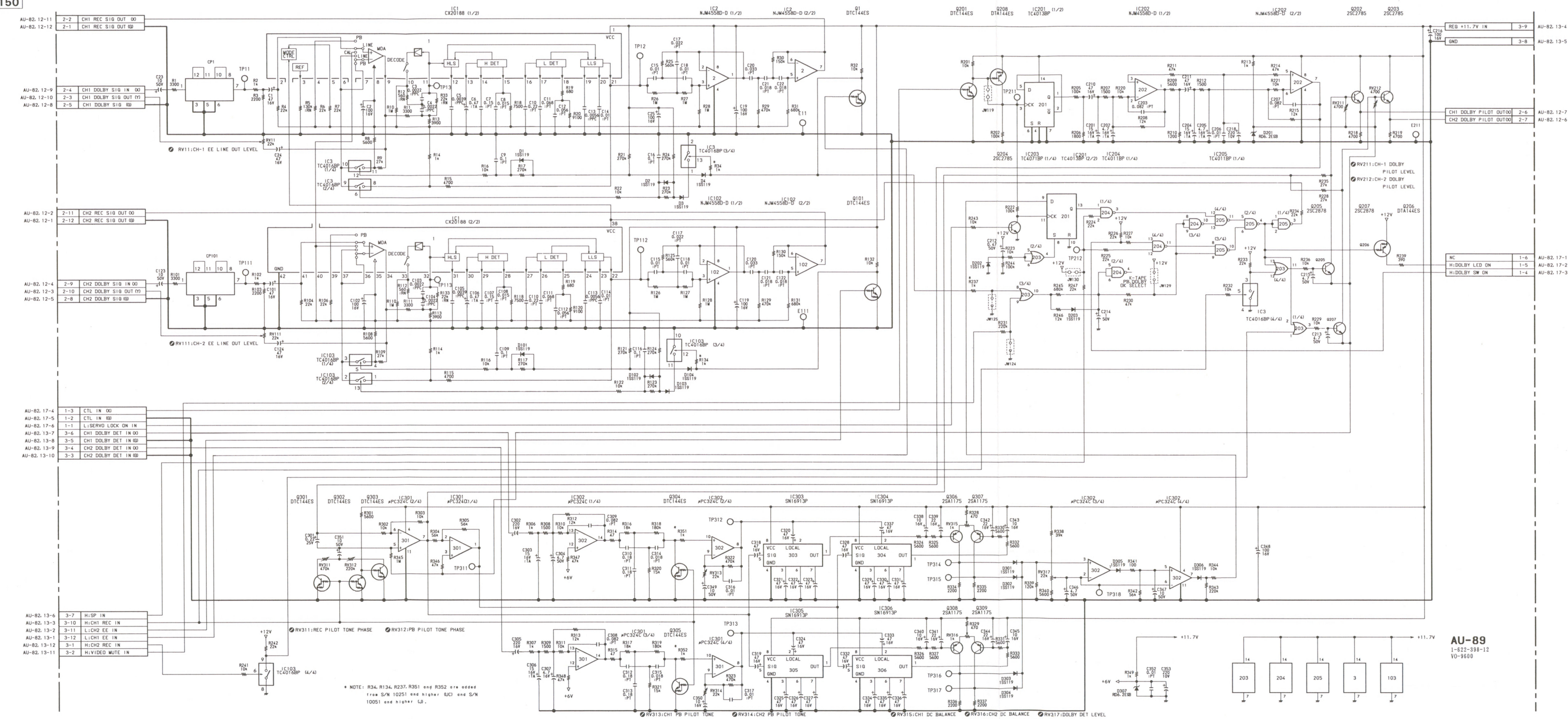
CN251	H-1
CN252	B-1
CN253	C-1
CP1	C-2
CP101	D-2
D1	A-2
D2	A-3
D3	A-3
D4	A-2
D101	F-3
D102	F-3
D103	F-3
D104	G-3
D201	H-5
D202	H-3
D206	J-4
D301	M-1
D302	N-1
D303	M-2
D304	N-2
D305	K-5
D306	K-5
D307	K-2
E11	D-1
E111	F-1
IC1	D-4
IC2	A-4
IC3	A-2
IC102	F-4
IC103	F-2
IC201	H-3
IC202	H-5
IC203	J-2
IC204	J-4
IC205	J-5
IC301	L-3
IC302	L-5
IC303	M-5
IC304	N-5
IC305	M-4
IC306	N-3
Q1	A-2
Q101	F-2
Q201	H-2
Q202	H-2
Q203	H-2
Q204	H-2
Q205	J-1
Q206	J-2
Q207	H-2
Q208	H-2
Q301	L-4
Q302	K-4
Q303	K-4
Q304	L-4
Q305	L-4
Q306	M-1
Q307	N-1
Q308	M-2
Q309	N-2
RV11	A-1
RV111	B-1
RV211	E-1
RV212	F-1
RV311	L-1
RV312	L-1
RV313	K-1
RV314	M-1
RV315	N-1
RV316	M-1
RV317	K-1
TP11	C-1
TP12	A-1
TP13	A-1
TP111	C-1
TP112	E-1
TP113	E-1
TP211	H-1
TP212	C-1
TP311	L-1
TP312	K-1
TP313	L-1
TP314	M-1
TP315	N-1
TP316	M-1
TP317	M-1
TP318	K-1



AU-89
-COMPONENT SIDE-
1-622-398-11
VO-9600

AU-89: DOLBY

UC; S/N 10251 thru 11150
J; S/N 10051 thru 10150

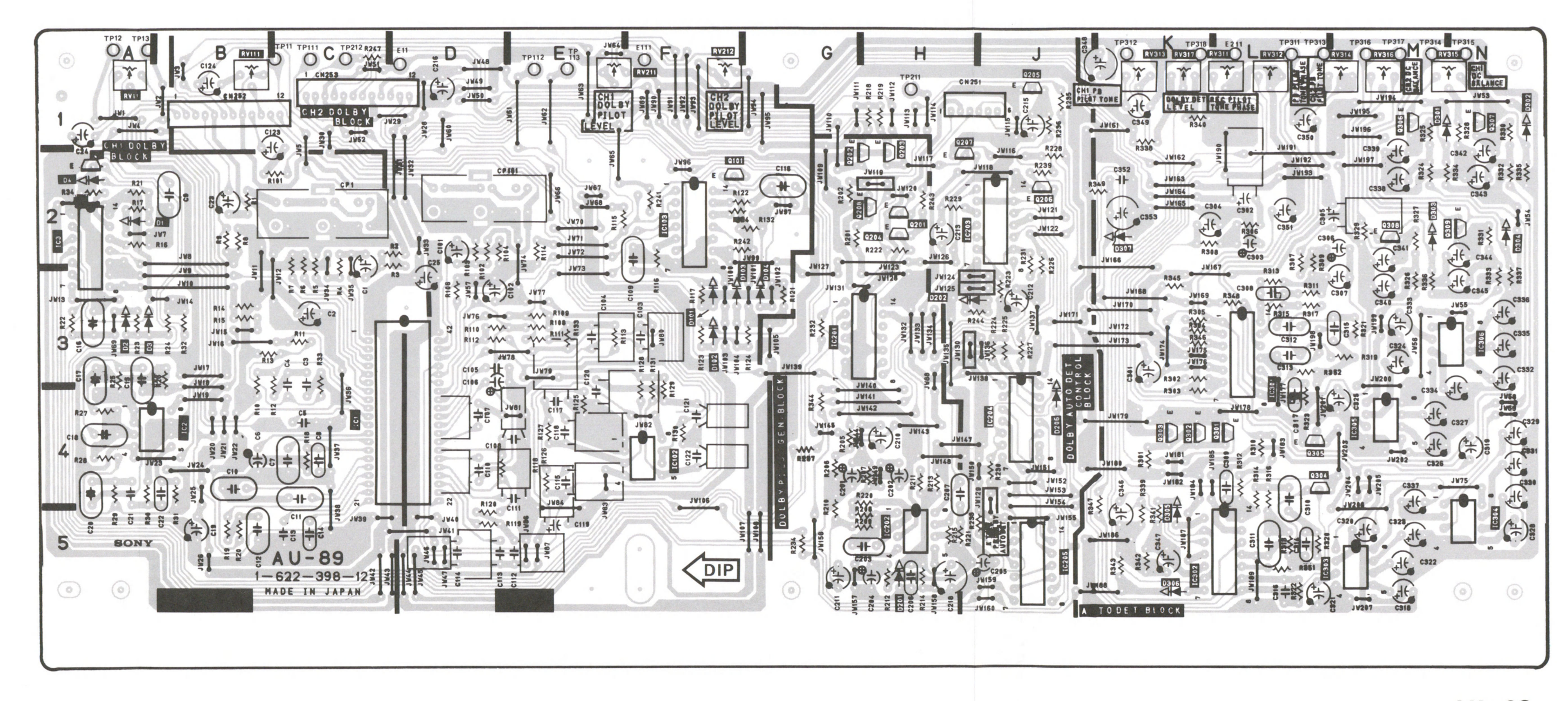


AU-89: DOLBY

UC; S/N 10251 thru 11150
J; S/N 10051 thru 10150

AU-89 (1-622-398-12)

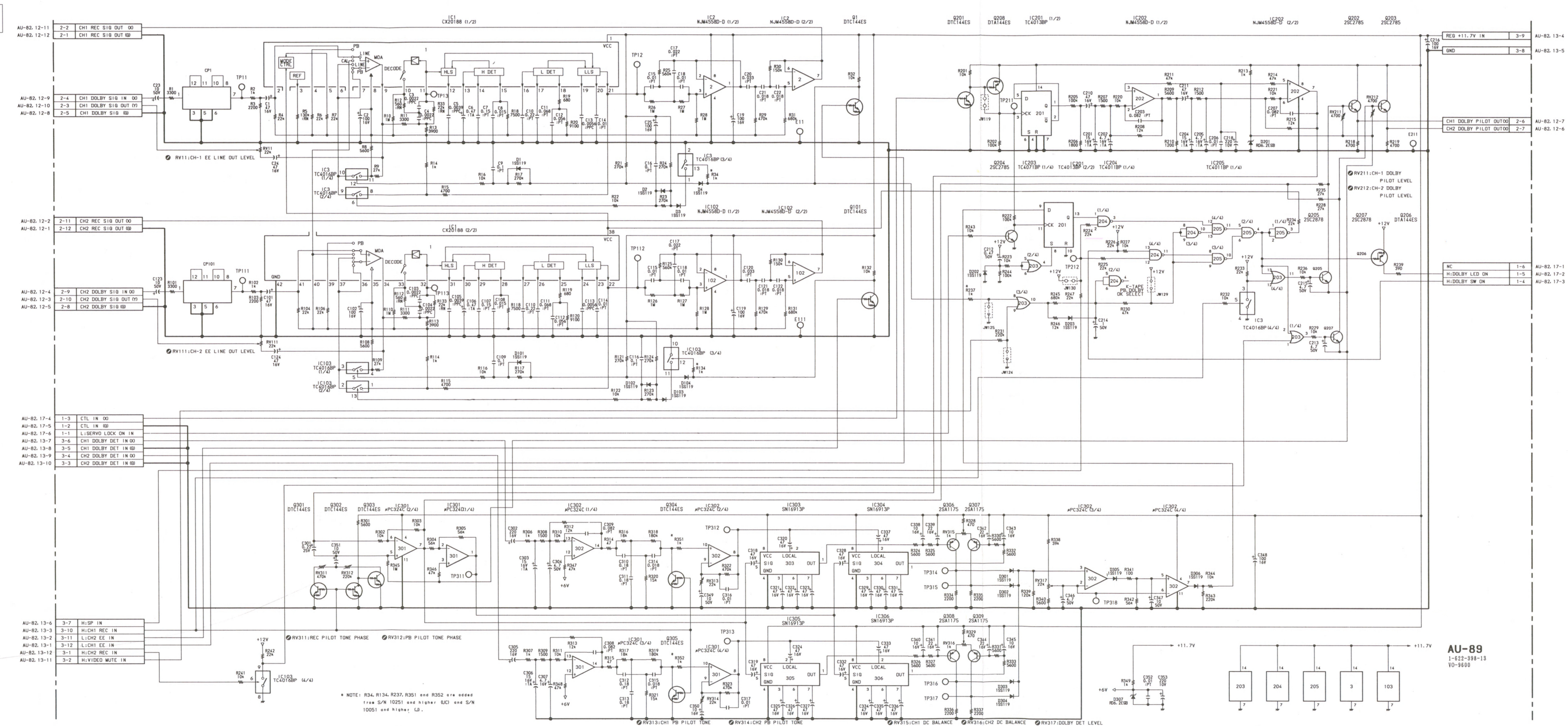
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CN251	H-1
CN252	B-1
CN253	C-1
CP1	C-2
CP101	D-2
D1	A-2
D2	A-3
D3	A-3
D4	A-2
D101	F-3
D102	F-3
D103	F-3
D104	G-3
D201	H-5
D202	H-3
D206	J-4
D301	M-1
D302	N-1
D303	M-2
D304	N-2
D305	K-5
D306	K-5
D307	K-2
E11	D-1
E111	F-1
IC1	D-4
IC2	A-4
IC3	A-2
IC102	F-4
IC103	F-2
IC201	H-3
IC202	H-5
IC203	J-2
IC204	J-4
IC205	J-5
IC301	L-3
IC302	L-5
IC303	M-5
IC304	N-5
IC305	M-4
IC306	N-3
Q1	A-2
Q101	F-2
Q201	H-2
Q202	H-2
Q203	H-2
Q204	H-2
Q205	J-1
Q206	J-2
Q207	H-2
Q208	H-2
Q301	L-4
Q302	K-4
Q303	K-4
Q304	L-4
Q305	L-4
Q306	M-1
Q307	N-1
Q308	M-2
Q309	N-2
RV11	A-1
RV111	B-1
RV211	E-1
RV212	F-1
RV311	L-1
RV312	L-1
RV313	K-1
RV314	M-1
RV315	N-1
RV316	M-1
RV317	K-1
TP11	C-1
TP12	A-1
TP13	A-1
TP111	C-1
TP112	E-1
TP113	E-1
TP211	H-1
TP212	C-1
TP311	L-1
TP312	K-1
TP313	L-1
TP314	M-1
TP315	N-1
TP316	M-1
TP317	M-1
TP318	K-1



AU-89
-COMPONENT SIDE-
1-622-398-12
VO-9600

AU-89: DOLBY

UC; S/N 11151 and higher
J; S/N 10151 and higher

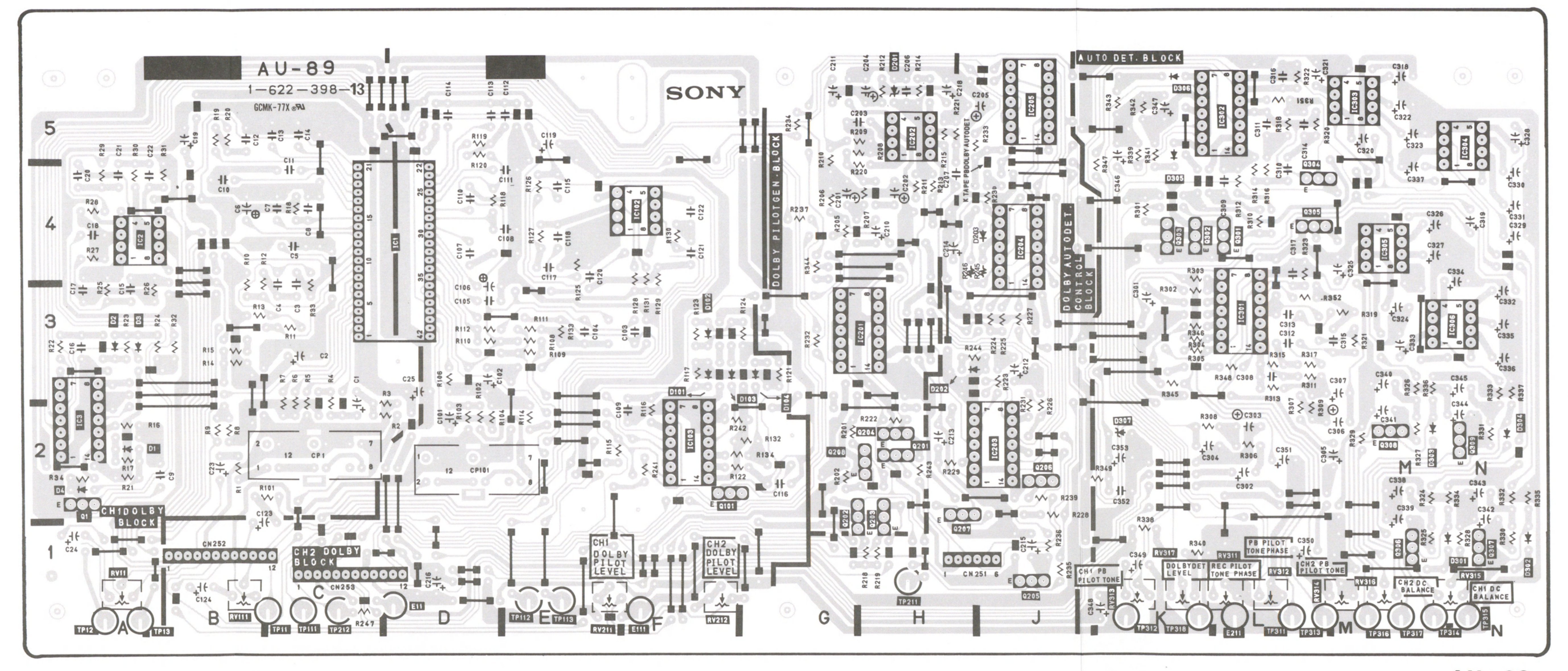


AU-89:DOLBY

UC; S/N 11151 and higher
J; S/N 10151 and higher

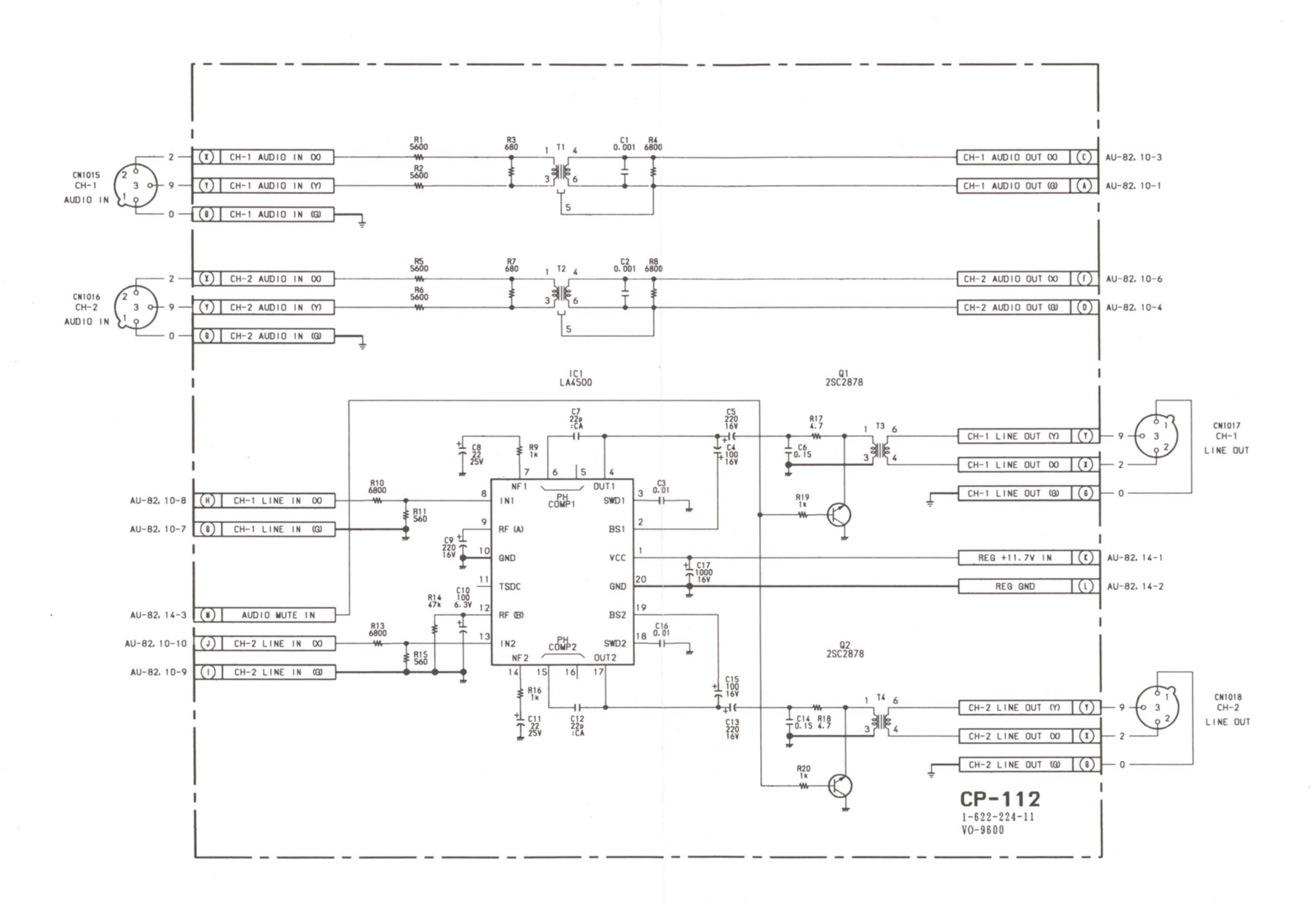
AU-89 (1-622-398-13)

CN251	H-1
CN252	B-1
CN253	C-1
CP1	C-2
CP101	D-2
D1	A-2
D2	A-3
D3	A-3
D4	A-2
D101	F-3
D102	F-3
D103	F-3
D104	G-3
D201	H-5
D202	H-3
D203	J-4
D301	N-1
D302	N-1
D303	M-2
D304	N-2
D305	K-5
D306	K-5
D307	K-2
E11	D-1
E111	F-1
E211	L-1
IC1	D-4
IC2	A-4
IC3	A-2
IC102	F-4
IC103	F-2
IC201	H-3
IC202	H-5
IC203	J-2
IC204	J-4
IC205	J-1
IC301	L-3
IC302	L-5
IC303	M-5
IC304	N-5
IC305	M-4
IC306	N-3
Q1	A-2
Q101	F-2
Q201	H-2
Q202	H-2
Q203	H-2
Q204	H-2
Q205	J-1
Q206	J-2
Q207	H-2
Q208	H-2
Q301	L-4
Q302	K-4
Q303	K-4
Q304	L-4
Q305	L-4
Q306	M-1
Q307	N-1
Q308	M-2
Q309	N-2
RV11	A-1
RV111	B-1
RV211	E-1
RV212	F-1
RV311	L-1
RV312	L-1
RV313	K-1
RV314	M-1
RV315	N-1
RV316	M-1
RV317	K-1
TP11	C-1
TP12	A-1
TP13	A-1
TP111	C-1
TP112	E-1
TP113	E-1
TP211	H-1
TP212	C-1
TP311	L-1
TP312	K-1
TP313	L-1
TP314	M-1
TP315	N-1
TP316	M-1
TP317	M-1
TP318	K-1



AU-89
-COMPONENT SIDE-
1-622-398-13
VO-9600

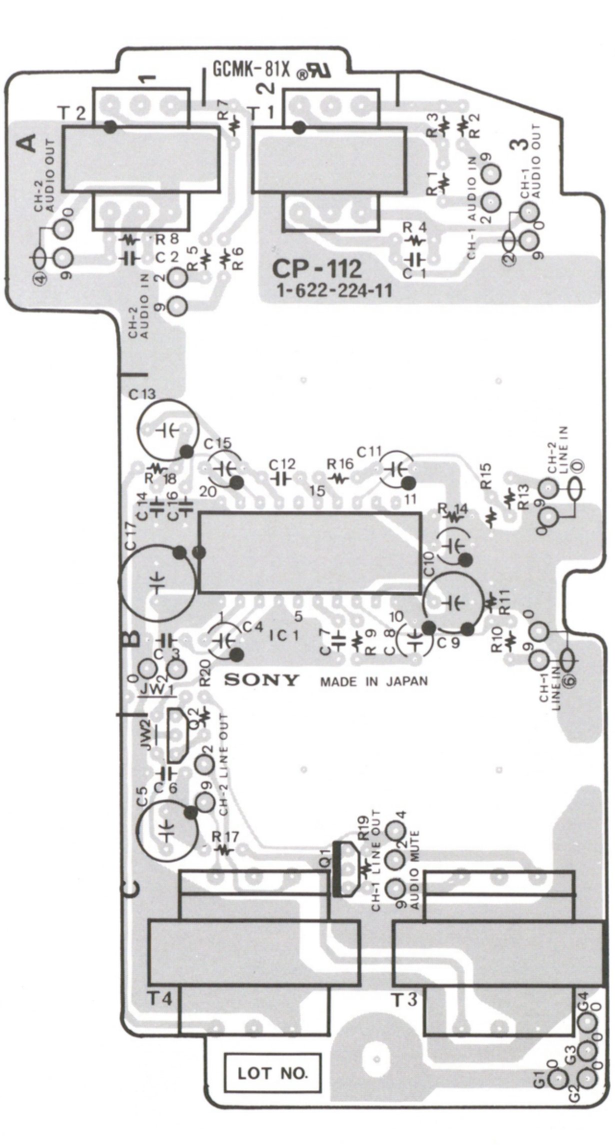
CP-112: OUTPUT AMPLIFIER



CP-112: OUTPUT AMPLIFIER

CP-112 (1-622-224-11)

IC1	B-2
Q1	C-2
Q2	C-1
T1	A-2
T2	A-1
T3	C-3
T4	C-2



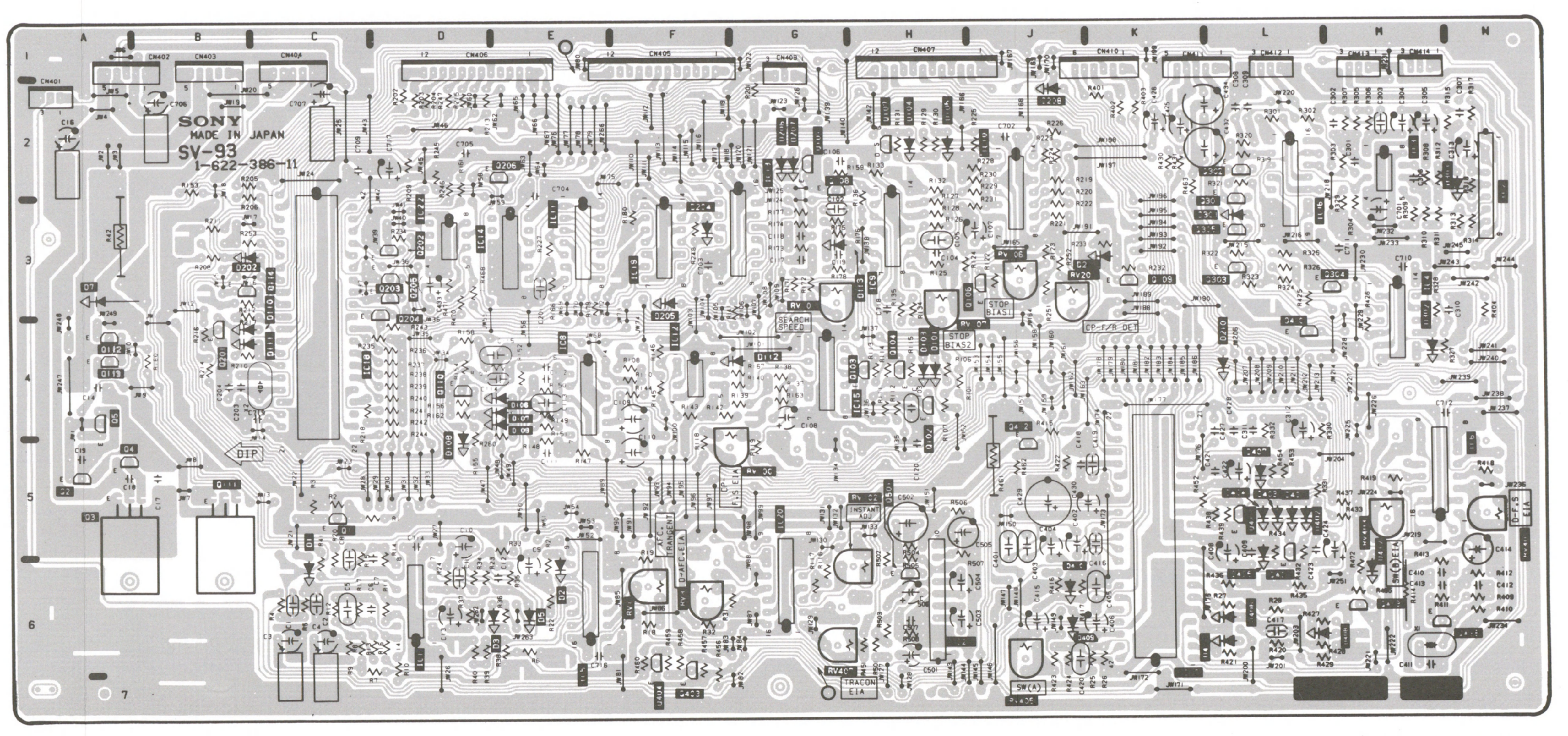
CP-112
-COMPONENT SIDE-
1-622-224-11
VO-9600

SV-93: SERVO SYSTEM

UC; S/N 10001 thru 11150
J; S/N 10001 thru 10150

SV-93 (1-622-386-11)

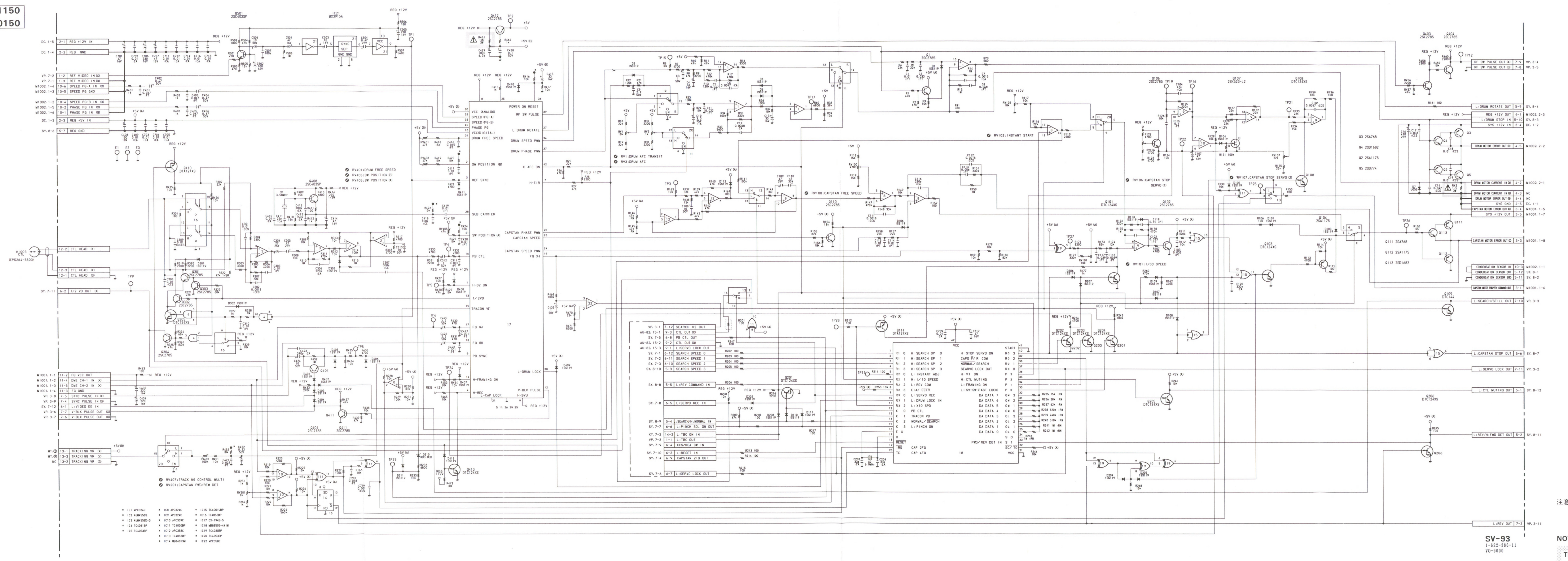
CN401	A-2	IC1	D-6	Q408	M-6
CN402	A-1	IC2	N-2	Q410	L-4
CN403	B-1	IC3	M-2	Q411	L-5
CN404	C-1	IC4	M-3	Q412	J-5
CN405	F-1	IC5	E-6	Q413	M-6
CN406	D-1	IC6	M-5	Q501	H-6
CN407	H-1	IC8	E-4		
CN409	G-1	IC9	H-3	RV1	F-6
CN410	K-1	IC10	J-2	RV3	F-6
CN411	K-1	IC11	E-3	RV100	F-5
CN412	L-1	IC12	F-4	RV101	G-3
CN413	M-1	IC13	G-3	RV102	H-6
CN414	M-1	IC14	E-3	RV106	J-3
		IC15	G-4	RV107	H-3
D1	C-6	IC16	L-2	RV201	J-3
D2	E-6	IC17	K-5	RV401	N-5
D3	E-6	IC18	C-3	RV403	M-5
D5	E-6	IC19	F-3	RV405	J-6
D7	A-3	IC20	G-6	RV407	G-6
D101	H-4	IC21	H-6		
D103	H-4	IC22	D-3	X1	M-6
D104	H-2			X2	C-4
D105	H-2	Q1	C-5		
D106	E-4	Q2	A-5		
D107	E-4	Q3	A-5		
D108	D-5	Q4	A-5		
D109	E-4	Q5	A-4		
D110	B-4	Q101	G-2		
D111	B-4	Q102	H-4		
D112	G-4	Q103	H-4		
D113	G-3	Q104	H-4		
D202	B-3	Q106	J-3		
D204	F-3	Q107	H-2		
D205	F-3	Q108	G-2		
D206	G-2	Q109	K-3		
D207	G-2	Q110	D-4		
D208	J-2	Q111	B-5		
D210	L-4	Q112	A-4		
D211	K-3	Q113	A-4		
D301	L-3	Q114	B-3		
D302	M-4	Q201	B-4		
D303	N-2	Q202	D-3		
D401	L-5	Q203	D-3		
D402	L-5	Q204	D-3		
D403	L-5	Q205	D-3		
D404	L-5	Q206	E-2		
D405	L-5	Q301	L-3		
D406	L-6	Q302	L-2		
D407	L-5	Q303	L-3		
D408	L-6	Q304	M-3		
D409	J-6	Q305	L-3		
D410	J-6	Q401	L-5		
D411	L-6	Q403	F-6		
D412	M-6	Q404	F-6		



SV-93
-COMPONENT SIDE-
1-622-386-11
VO-9600

SV-93: SERVO SYSTEM

UC; S/N 10001 thru 11150
J; S/N 10001 thru 10150



注意 1：⚠印及び░░で囲まれた部品は安全性を維持するために重要な部品です。従って交換する時は必ず指定の部品を使って下さい。

NOTE;

The shaded and ⚠-marked components are critical to safety.
Replace only with same components as specified.

SV-93: SERVO SYSTEM

UC; S/N 11151 thru 11870
J; S/N 10151 thru 10230

SV-93
1-622-386-12
VO-9600

注意 1：⚠印及び░░で囲まれた部品は安全性を維持するために重要な部品です　従って交換する時は必ず指定の部品を使って下さい

NOTE;

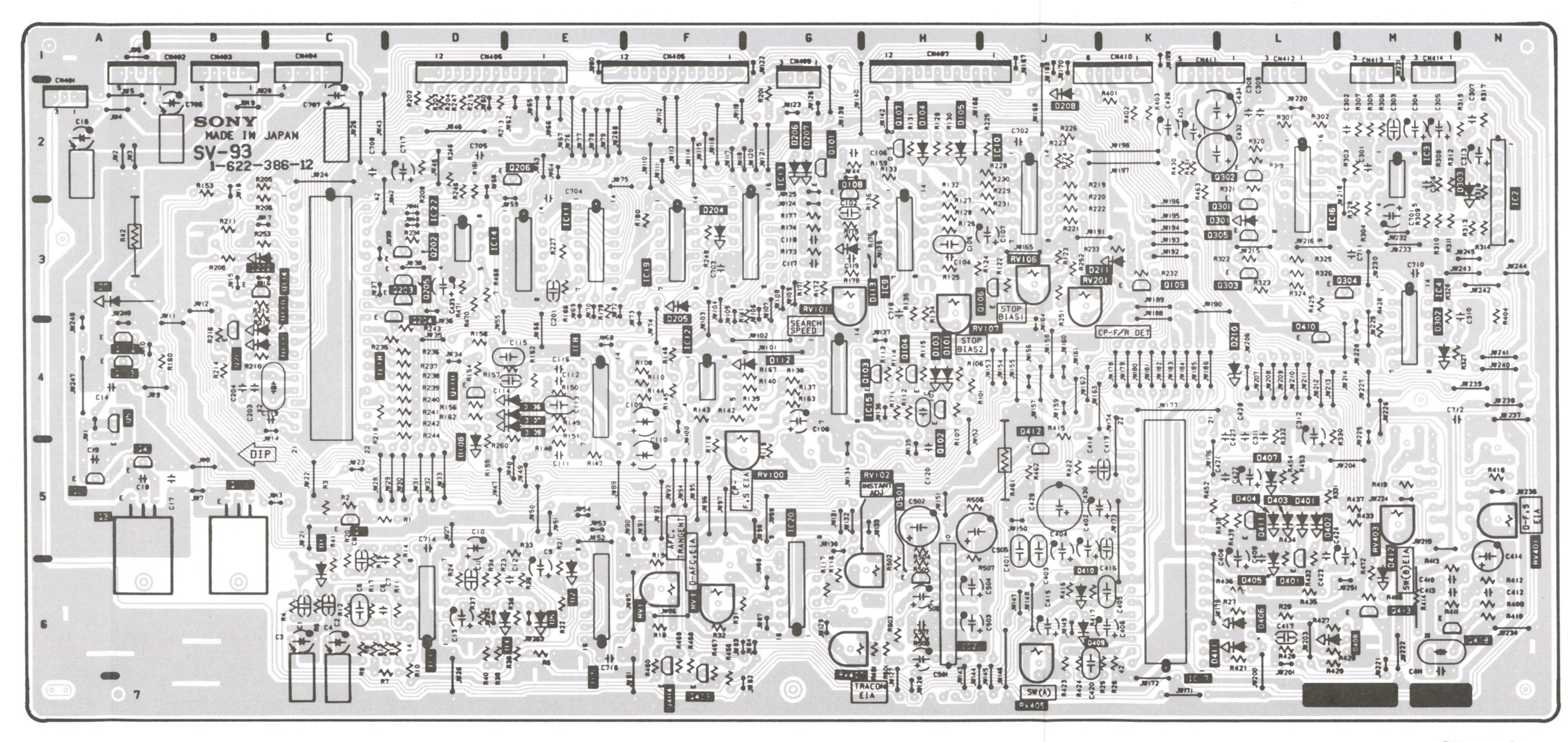
The shaded and ⚠-marked components are critical to safety.
Replace only with same components as specified.

SV-93: SERVO SYSTEM

UC; S/N 11151 thru 11870
J; S/N 10151 thru 10230

SV-93 (1-622-386-12)

CN401	A-2	IC1	D-6	Q410	L-4
CN402	B-1	IC2	N-2	Q411	L-5
CN403	B-1	IC3	M-2	Q412	J-5
CN404	C-1	IC4	M-4	Q413	M-6
CN405	F-1	IC5	E-6	Q501	H-6
CN406	D-1	IC8	E-4		
CN407	H-1	IC9	H-3	RV1	F-6
CN409	G-1	IC10	J-2	RV3	F-6
CN410	K-1	IC11	E-3	RV100	F-5
CN411	K-1	IC12	F-4	RV101	G-3
CN412	L-1	IC13	G-3	RV102	H-6
CN413	M-1	IC14	E-3	RV106	J-3
CN414	M-1	IC15	G-4	RV107	H-3
		IC16	L-2	RV201	J-3
D1	C-6	IC17	K-5	RV401	N-5
D2	E-6	IC18	C-3	RV403	M-5
D3	D-6	IC19	F-3	RV405	J-6
D5	E-6	IC20	G-6	RV407	G-6
D7	A-3	IC21	H-6		
D101	H-4	IC22	D-3	X1	M-6
D103	H-4			X2	C-4
D104	H-2	Q1	C-5		
D105	H-2	Q2	A-5		
D106	E-4	Q3	A-5		
D107	E-4	Q4	A-5		
D108	D-5	Q5	A-4		
D109	E-4	Q101	G-2		
D110	B-4	Q102	H-4		
D111	B-4	Q103	H-4		
D112	G-4	Q104	H-4		
D113	G-3	Q106	J-3		
D202	B-3	Q107	H-2		
D204	F-3	Q108	G-2		
D205	F-3	Q109	K-3		
D206	G-2	Q110	D-4		
D207	G-2	Q111	B-5		
D208	J-2	Q112	A-4		
D210	L-4	Q113	A-4		
D211	K-3	Q114	B-3		
D301	L-3	Q201	B-4		
D302	M-4	Q202	D-3		
D303	N-2	Q203	D-3		
D401	L-5	Q204	D-3		
D402	L-5	Q205	D-3		
D403	L-5	Q206	E-2		
D404	L-5	Q301	L-3		
D405	L-6	Q302	L-2		
D406	L-6	Q303	L-3		
D407	L-5	Q304	M-3		
D408	L-6	Q305	L-3		
D409	J-6	Q401	L-6		
D410	J-6	Q403	F-6		
D411	L-6	Q404	F-6		
D412	M-6	Q408	M-6		



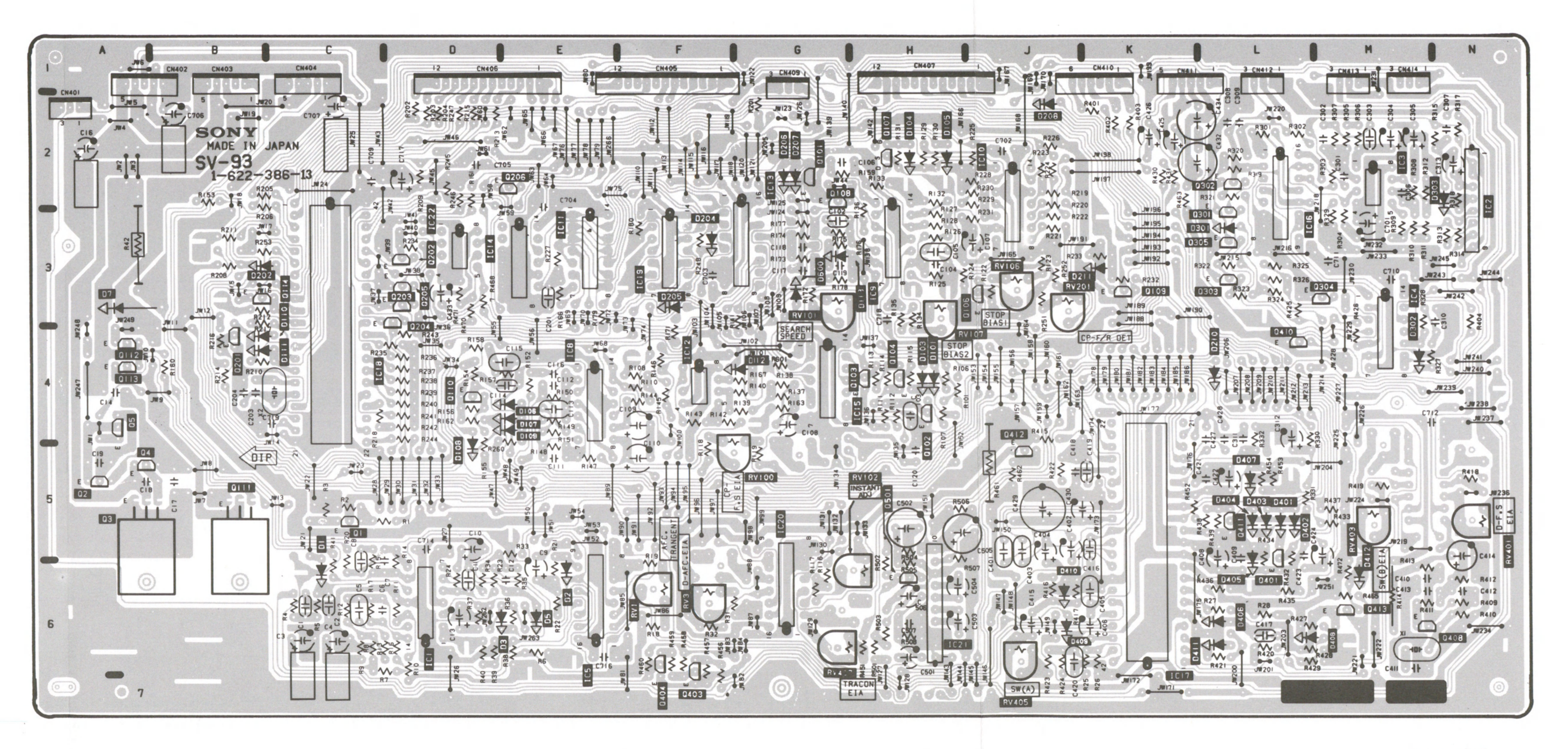
SV-93
-COMPONENT SIDE-
1-622-386-12
VO-9600

SV-93: SERVO SYSTEM

UC; S/N 11871 and higher
J; S/N 10231 and higher

SV-93 (1-622-386-13)

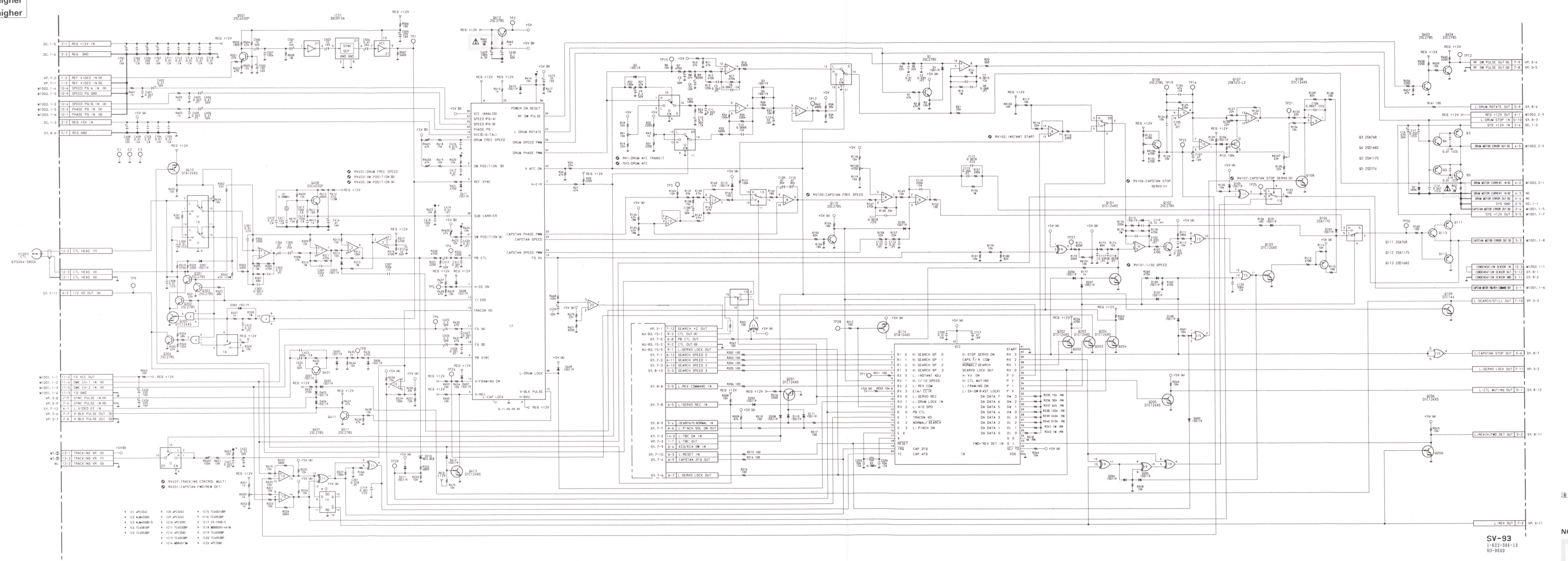
CN401	A-2	IC1	D-6	Q411	L-5
CN402	A-1	IC2	N-2	Q412	J-5
CN403	B-1	IC3	M-2	Q413	M-6
CN404	C-1	IC4	M-3	Q501	H-6
CN405	F-1	IC5	E-6		
CN406	D-1	IC8	E-4	RV1	F-6
CN407	H-1	IC9	H-3	RV3	F-6
CN409	G-1	IC10	J-2	RV100	F-5
CN410	K-1	IC11	E-3	RV101	G-3
CN411	K-1	IC12	F-4	RV102	H-6
CN412	L-1	IC13	G-3	RV106	J-3
CN413	M-1	IC14	E-3	RV107	H-3
CN414	M-1	IC15	G-4	RV201	J-3
		IC16	L-2	RV401	N-5
D1	C-6	IC17	K-5	RV403	M-5
D2	E-6	IC18	C-3	RV405	J-6
D3	E-6	IC19	F-3	RV407	G-6
D5	E-6	IC20	G-6		
D7	A-3	IC21	H-6	X1	M-6
D101	H-4	IC22	D-3	X2	C-4
D103	H-4				
D104	H-2	Q1	C-5		
D105	H-2	Q2	A-5		
D106	E-4	Q3	A-5		
D107	E-4	Q4	A-5		
D108	D-5	Q5	A-4		
D109	E-4	Q101	G-2		
D110	B-4	Q102	H-4		
D111	B-4	Q103	H-4		
D112	G-4	Q104	H-4		
D113	G-3	Q106	J-3		
D202	B-3	Q107	H-2		
D204	F-3	Q108	G-2		
D205	F-3	Q109	K-3		
D206	G-2	Q110	D-4		
D207	G-2	Q111	B-5		
D208	J-2	Q112	A-4		
D210	L-4	Q113	A-4		
D211	K-3	Q114	B-3		
D301	L-3	Q201	B-4		
D302	M-4	Q202	D-3		
D303	N-2	Q203	D-3		
D401	L-5	Q204	D-3		
D402	L-5	Q205	D-3		
D403	L-5	Q206	E-2		
D404	L-5	Q301	L-3		
D405	L-5	Q302	L-2		
D406	L-6	Q303	L-3		
D407	L-5	Q304	M-3		
D408	L-6	Q305	L-3		
D409	J-6	Q401	L-5		
D410	J-6	Q403	F-6		
D411	L-6	Q404	F-6		
D412	M-6	Q408	M-6		
D600	G-3	Q410	L-4		



SV-93
-COMPONENT SIDE-
1-622-386-13
VO-9600

SV-93: SERVO SYSTEM


UC; S/N 11871 and higher
J; S/N 10231 and higher



注意１：△印及び　　　で囲まれた部品は安全性を維持するために重要な部品です。従って交換する時は必ず指定の部品を使って下さい。

NOTE;

The shaded and △-marked components are critical to safety.
Replace only with same components as specified.

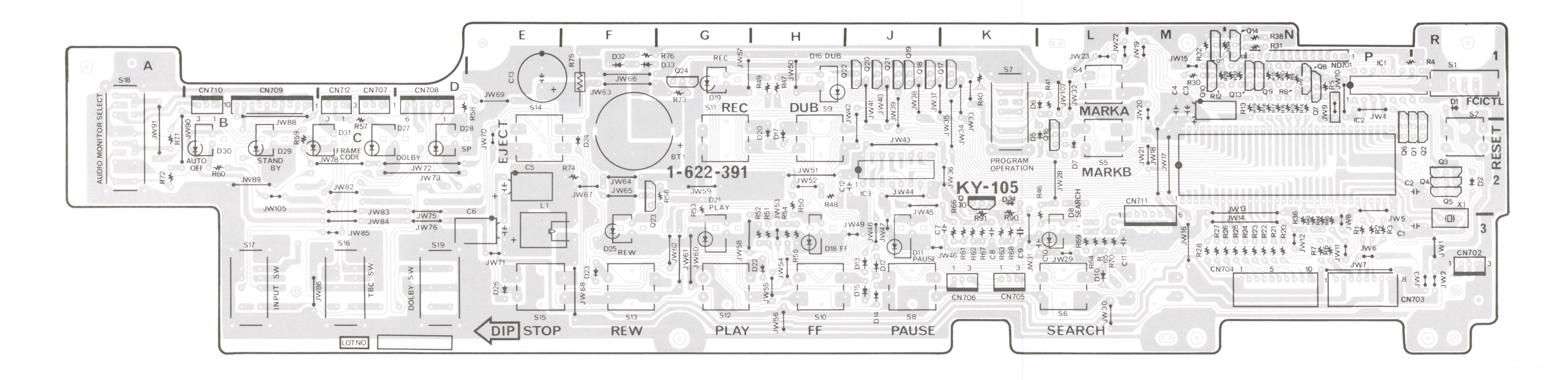

KY-105 KY-105
KY-105: FUNCTION KEY/DISPLAY
UC; S/N 10001 thru 10250
J; S/N 10001 thru 10050
KY-105 KY-105
KY-105
14-198
14-199
14-200

KY-105: FUNCTION KEY/DISPLAY

UC; S/N 10001 thru 10250
J; S/N 10001 thru 10050

KY-105 (1-622-391-11)

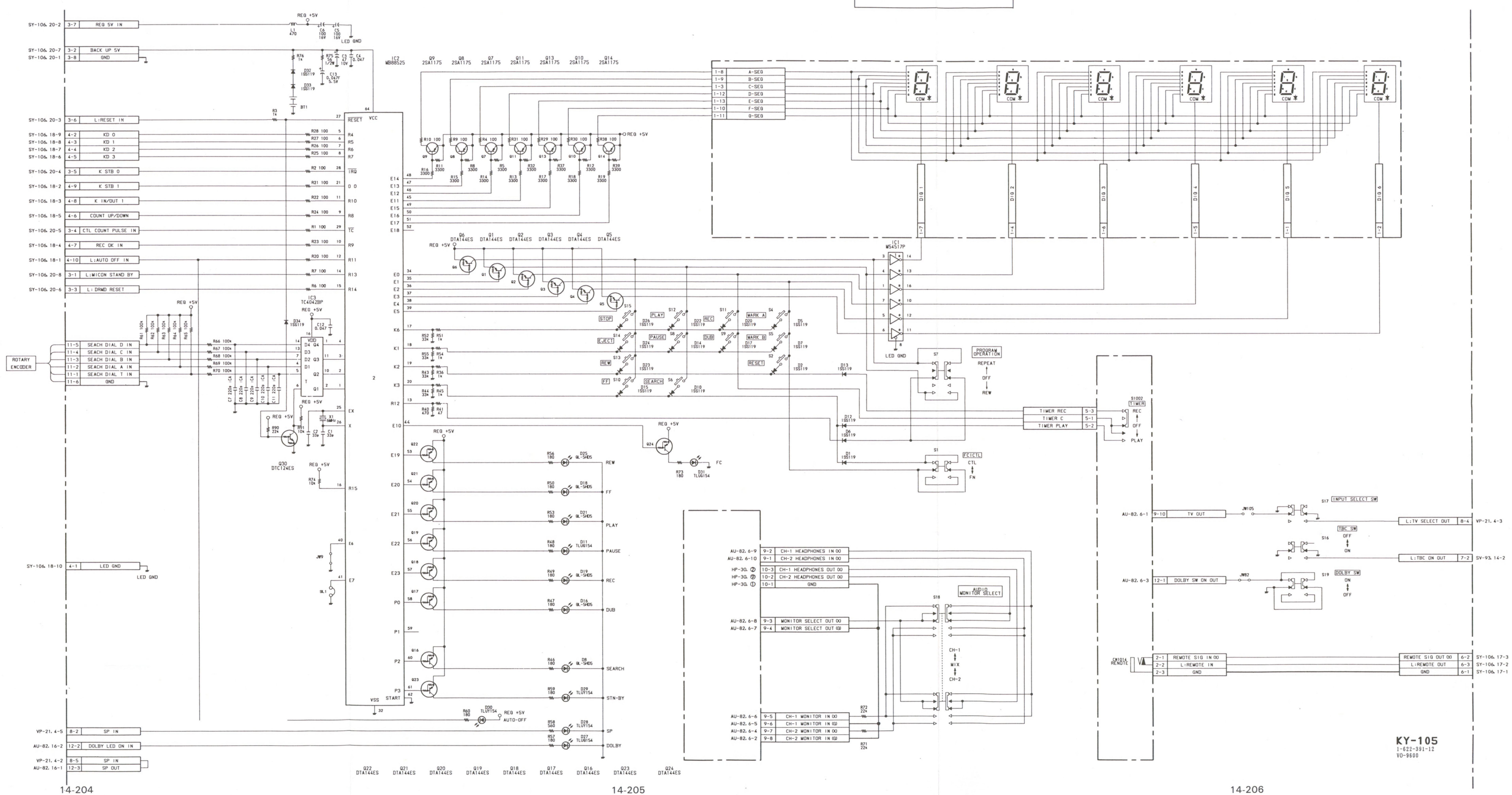
BT1	F-2	Q1	R-2
		Q2	R-2
CN702	R-3	Q3	R-2
CN703	P-3	Q4	R-2
CN704	N-3	Q5	R-2
CN705	K-3	Q6	P-2
CN706	K-3	Q7	N-1
CN707	C-1	Q8	N-1
CN708	D-1	Q9	N-1
CN709	B-1	Q10	M-1
CN710	B-1	Q11	M-1
CN711	M-3	Q13	N-1
CN712	C-1	Q14	N-1
		Q17	K-1
D1	R-1	Q18	J-1
D2	R-2	Q19	J-1
D5	L-2	Q20	J-1
D6	L-1	Q21	J-1
D7	L-2	Q22	J-1
D8	L-3	Q23	F-2
D10	L-3	Q24	G-1
D11	J-3	Q30	K-2
D12	J-3		
D13	J-3	S1	R-1
D14	J-3	S2	R-2
D15	J-3	S4	L-1
D16	H-1	S5	L-2
D17	H-2	S6	L-3
D18	H-3	S7	K-1
D19	G-1	S8	J-3
D20	H-2	S9	H-2
D21	G-3	S10	H-3
D22	H-3	S11	G-2
D23	F-3	S12	G-3
D24	F-2	S13	F-3
D25	F-3	S14	E-2
D26	E-3	S15	E-3
D27	C-2	S16	C-3
D28	D-2	S17	B-3
D29	B-2	S19	D-3
D30	B-2		
D31	B-2	X1	R-3
D32	F-1		
D33	F-1		
D34	K-2		
IC1	P-1		
IC2	N-2		
IC3	J-2		



KY-105
-COMPONENT SIDE-
1-622-391-11
VO-9600

KY-105: FUNCTION KEY/DISPLAY

UC; S/N 10251 thru 11150
J; S/N 10051 thru 10150

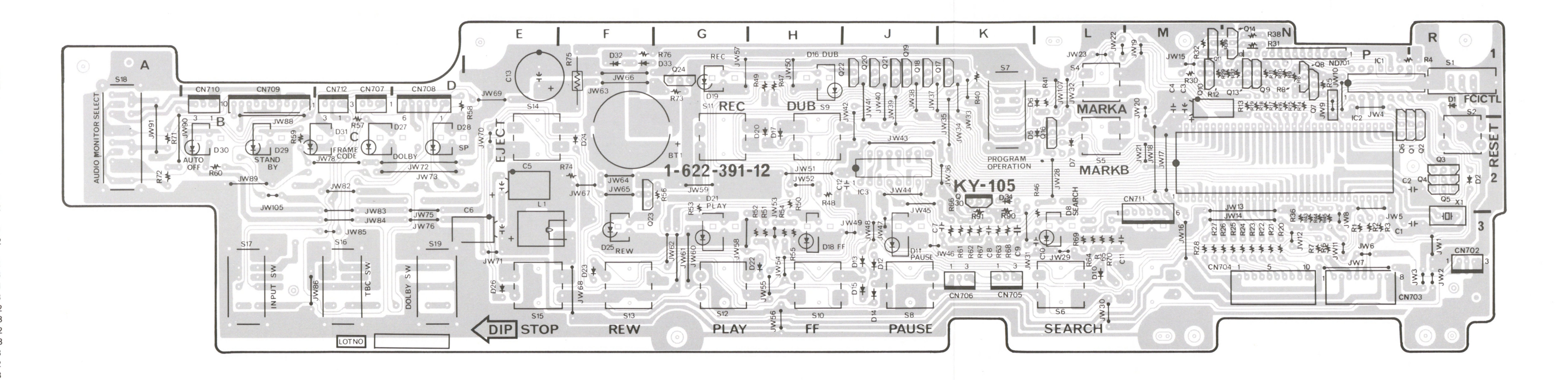


KY-105: FUNCTION KEY/DISPLAY

UC; S/N 10251 thru 11150
J; S/N 10051 thru 10150

KY-105 (1-622-391-12)

BT1	F-2	Q1	R-2
		Q2	R-2
CN702	R-3	Q3	R-2
CN703	P-3	Q4	R-2
CN704	N-3	Q5	R-2
CN705	K-3	Q6	P-2
CN706	K-3	Q7	N-1
CN707	C-1	Q8	N-1
CN708	D-1	Q9	N-1
CN709	B-1	Q10	M-1
CN710	B-1	Q11	M-1
CN711	M-3	Q13	N-1
CN712	C-1	Q14	N-1
		Q17	K-1
D1	R-1	Q18	J-1
D2	R-2	Q19	J-1
D5	L-2	Q20	J-1
D6	L-1	Q21	J-1
D7	L-2	Q22	J-1
D8	L-3	Q23	F-2
D10	L-3	Q24	G-1
D11	J-3	Q30	K-2
D12	J-3		
D13	J-3	S1	R-1
D14	J-3	S2	R-2
D15	J-3	S4	L-1
D16	H-1	S5	L-2
D17	H-2	S6	L-3
D18	H-3	S7	K-1
D19	G-1	S8	J-3
D20	H-2	S9	H-2
D21	G-3	S10	H-3
D22	H-3	S11	G-2
D23	F-3	S12	G-3
D24	F-2	S13	F-3
D25	F-3	S14	E-2
D26	E-3	S15	E-3
D27	C-2	S16	C-3
D28	D-2	S17	B-3
D29	B-2	S19	D-3
D30	B-2		
D31	B-2	X1	R-3
D32	F-1		
D33	F-1		
D34	K-2		
IC1	P-1		
IC2	N-2		
IC3	J-2		



KY-105
-COMPONENT SIDE-
1-622-391-12
VO-9600

KY-105: FUNCTION KEY/DISPLAY

UC; S/N 11151 thru 11350
J; S/N 10151 thru 10200

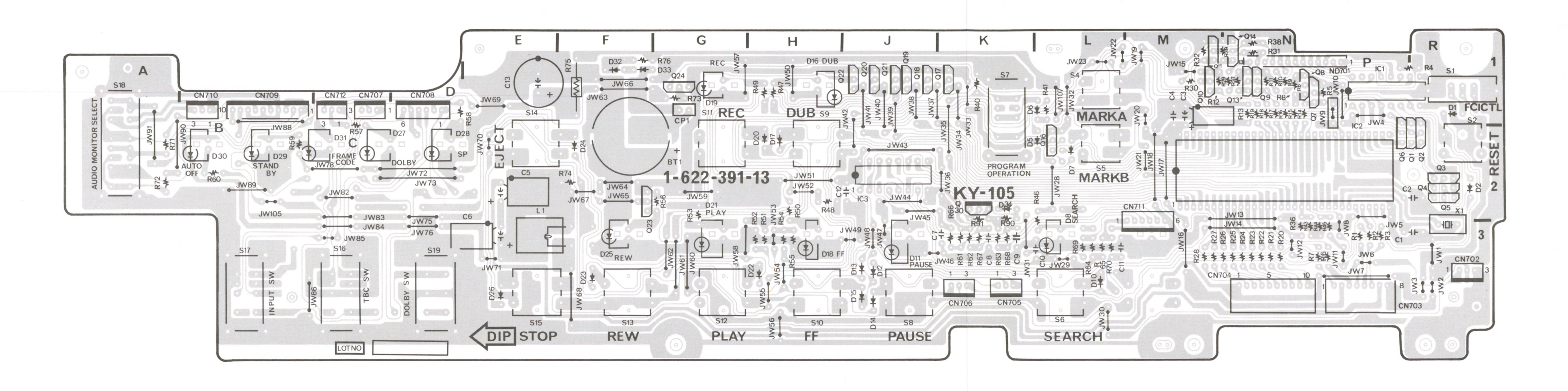
KY-105
1-622-391-13
VO-9600

KY-105: FUNCTION KEY/DISPLAY

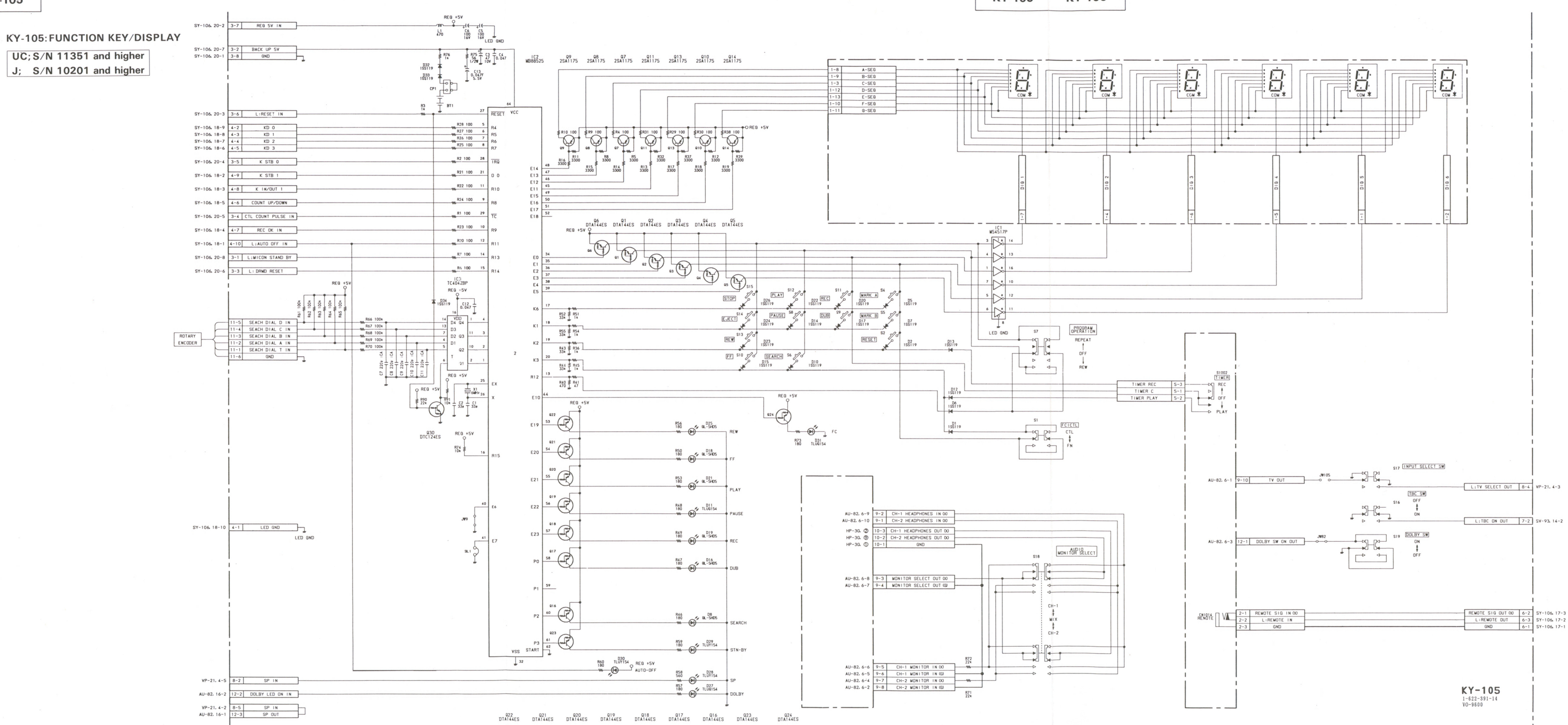
UC; S/N 11151 thru 11350
J; S/N 10151 thru 10200

KY-105 (1-622-391-13)

BT1	F-2	Q1	R-2
		Q2	R-2
CN702	R-3	Q3	R-2
CN703	P-3	Q4	R-2
CN704	N-3	Q5	R-2
CN705	K-3	Q6	P-2
CN706	K-3	Q7	N-1
CN707	C-1	Q8	N-1
CN708	D-1	Q9	N-1
CN709	B-1	Q10	M-1
CN710	B-1	Q11	M-1
CN711	M-3	Q13	N-1
CN712	C-1	Q14	N-1
CP1	G-1	Q17	K-1
		Q18	J-1
D1	R-1	Q19	J-1
D2	R-2	Q20	J-1
D5	L-2	Q21	J-1
D6	L-1	Q22	J-1
D7	L-2	Q23	F-2
D8	L-3	Q24	G-1
D10	L-3	Q30	K-2
D11	J-3		
D12	J-3	S1	R-1
D13	J-3	S2	R-2
D14	J-3	S4	L-1
D15	J-3	S5	L-2
D16	H-1	S6	L-3
D17	H-2	S7	K-1
D18	H-3	S8	J-3
D19	G-1	S9	H-2
D20	H-2	S10	H-3
D21	G-3	S11	G-2
D22	H-3	S12	G-3
D23	F-3	S13	F-3
D24	F-2	S14	E-2
D25	F-3	S15	E-3
D26	E-3	S16	C-3
D27	C-2	S17	B-3
D28	D-2	S19	D-3
D29	B-2		
D30	B-2	X1	R-3
D31	B-2		
D32	F-1		
D33	F-1		
D34	K-2		
IC1	P-1		
IC2	N-2		
IC3	J-2		



KY-105
-COMPONENT SIDE-
1-622-391-13
VO-9600


KY-105: FUNCTION KEY/DISPLAY
UC; S/N 11351 and higher
J; S/N 10201 and higher
REG 5V IN
BACK UP 5V
GND
L: RESET IN
KD 0
KD 1
KD 2
KD 3
K STB 0
K STB 1
K IN/OUT 1
COUNT UP/DOWN
CTL COUNT PULSE IN
REC OK IN
L: AUTO OFF IN
L: MICON STAND BY
L: DRWD RESET
SEACH DIAL D IN
SEACH DIAL C IN
SEACH DIAL B IN
SEACH DIAL A IN
SEACH DIAL T IN
ROTARY ENCODER
LED GND
SP IN
DOLBY LED ON IN
SP OUT
IC2 MB88525
IC3 TC4042BP
A-SEG
B-SEG
C-SEG
D-SEG
E-SEG
F-SEG
G-SEG
IC1 M54517P
STOP
PLAY
REC
MARK A
EJECT
PAUSE
DUB
MARK B
REW
RESET
FF
SEARCH
PROGRAM OPERATION
REPEAT
OFF
REW
TIMER REC
TIMER C
TIMER PLAY
TIMER
FC/CTL
CTL
FN
REW
FF
PLAY
PAUSE
REC
DUB
SEARCH
STN-BY
AUTO-OFF
SP
DOLBY
CH-1 HEADPHONES IN
CH-2 HEADPHONES IN
CH-1 HEADPHONES OUT
CH-2 HEADPHONES OUT
MONITOR SELECT OUT
AUDIO MONITOR SELECT
CH-1
MIX
CH-2
CH-1 MONITOR IN
CH-2 MONITOR IN
TV OUT
INPUT SELECT SW
L: TV SELECT OUT
TBC SW
L: TBC ON OUT
DOLBY SW ON OUT
DOLBY SW
REMOTE SIG IN
L: REMOTE IN
REMOTE SIG OUT
L: REMOTE OUT
KY-105
1-622-391-14
VO-9600

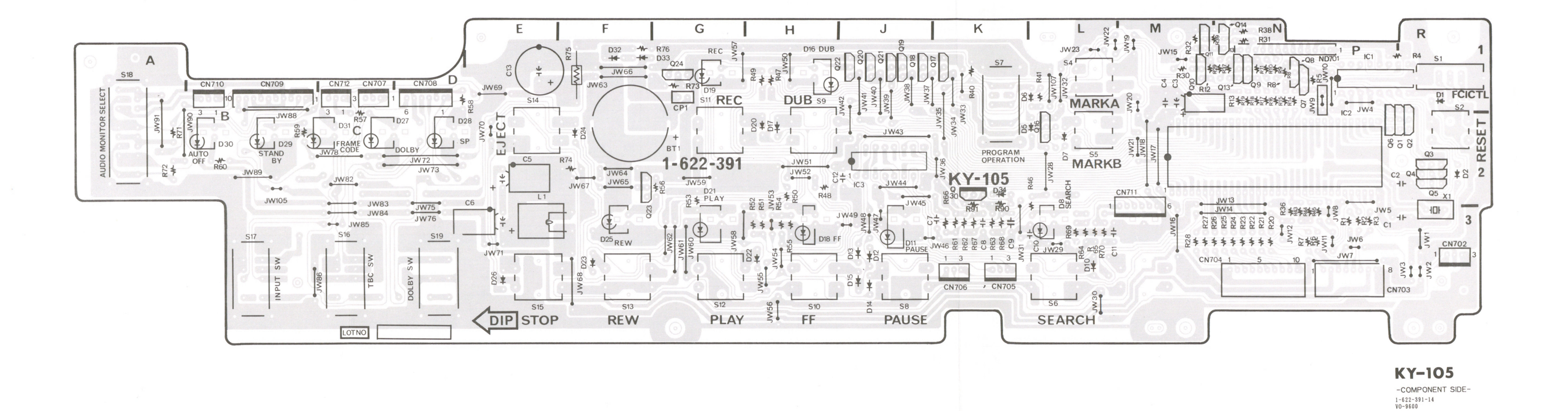
KY-105: FUNCTION KEY/DISPLAY

UC; S/N 11351 and higher
J; S/N 10201 and higher

KY-105 (1-622-391-14)

BT1	F-2
CN702	R-3
CN703	P-3
CN704	N-3
CN705	K-3
CN706	K-3
CN707	C-1
CN708	D-1
CN709	B-1
CN710	B-1
CN711	M-3
CN712	C-1
CP1	G-1
D1	R-1
D2	R-2
D5	L-2
D6	L-1
D7	L-2
D8	L-3
D10	L-3
D11	J-3
D12	J-3
D13	J-3
D14	J-3
D15	J-3
D16	H-1
D17	H-2
D18	H-3
D19	G-1
D20	H-2
D21	G-3
D22	H-3
D23	F-3
D24	F-2
D25	F-3
D26	E-3
D27	C-2
D28	D-2
D29	B-2
D30	B-2
D31	B-2
D32	F-1
D33	F-1
D34	K-2
IC1	P-1
IC2	N-2
IC3	J-2

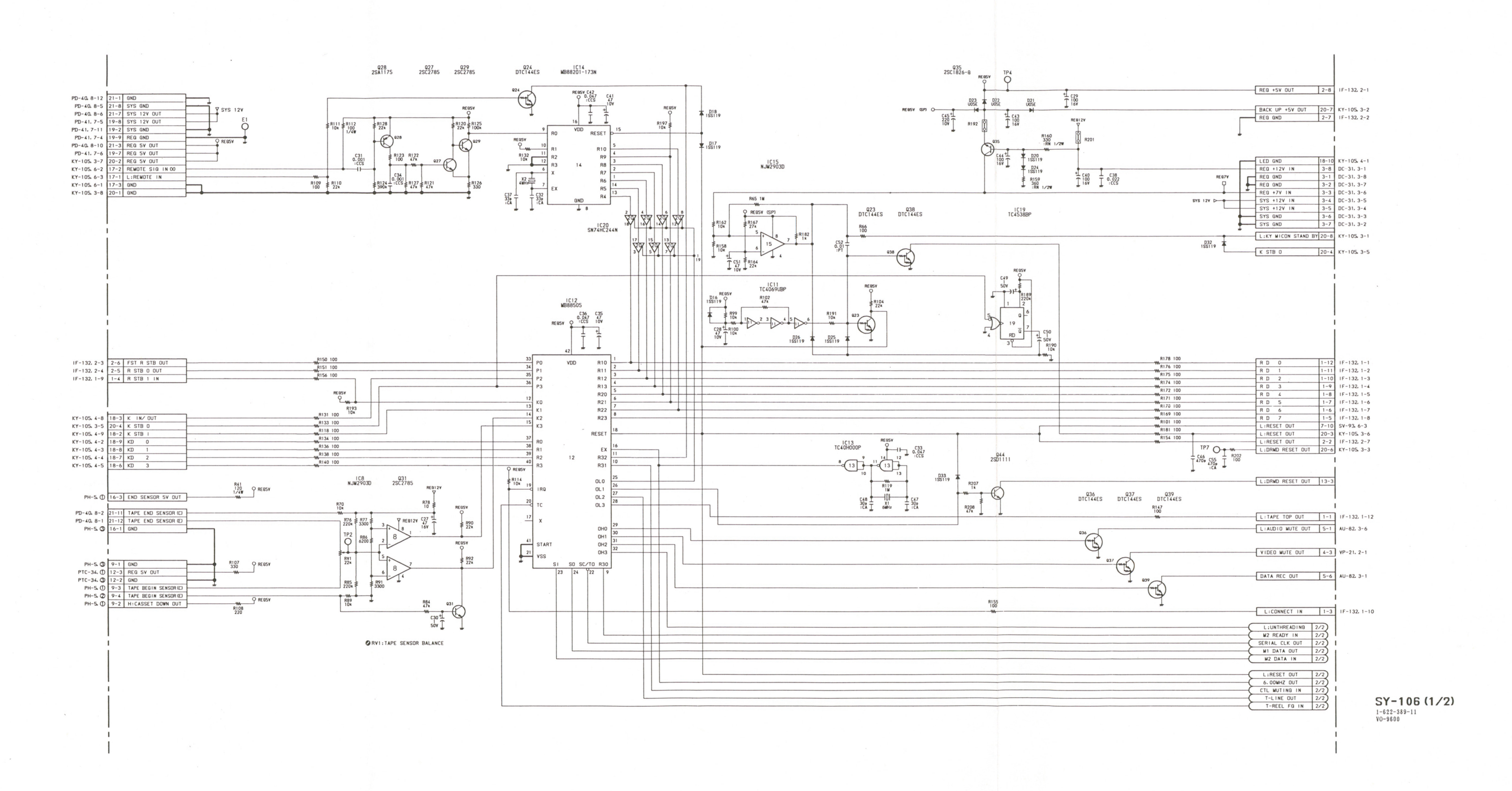
Q1	R-2
Q2	R-2
Q3	R-2
Q4	R-2
Q5	R-2
Q6	P-2
Q7	N-1
Q8	N-1
Q9	N-1
Q10	M-1
Q11	M-1
Q13	N-1
Q14	N-1
Q17	K-1
Q18	J-1
Q19	J-1
Q20	J-1
Q21	J-1
Q22	J-1
Q23	F-2
Q24	G-1
Q30	K-2
S1	R-1
S2	R-2
S4	L-1
S5	L-2
S6	L-3
S7	K-1
S8	J-3
S9	H-2
S10	H-3
S11	G-2
S12	G-3
S13	F-3
S14	E-2
S15	E-3
S16	C-3
S17	B-3
S19	D-3
X1	R-3



KY-105
-COMPONENT SIDE-
1-622-391-14
VO-9600

SY-106(1/2): SYSTEM CONTROL

UC; S/N 10001 thru 10250
J; S/N 10001 thru 10050



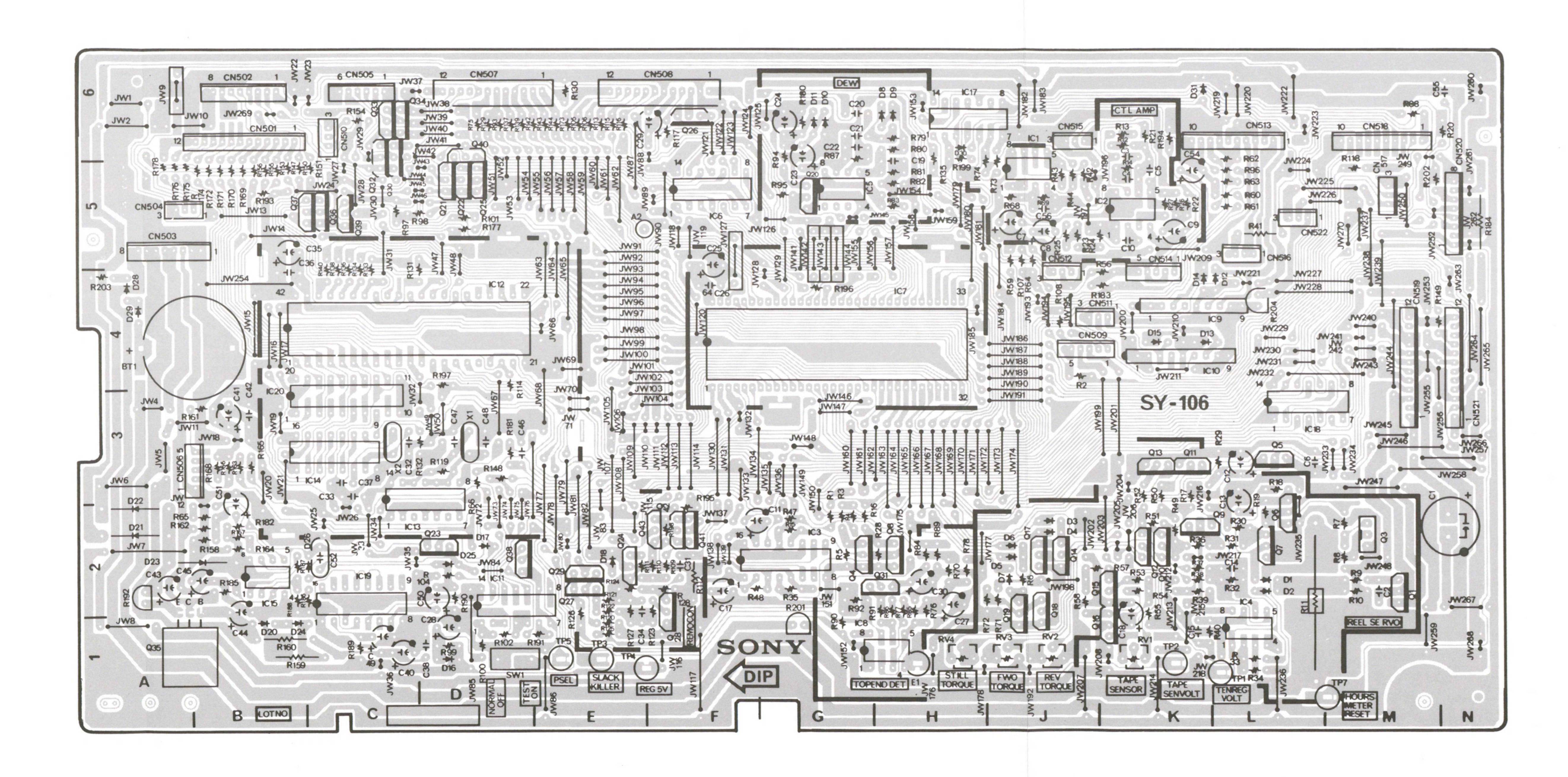
SY-106 (1/2)
1-622-389-11
VO-9600

SY-106(1/2): SYSTEM CONTROL

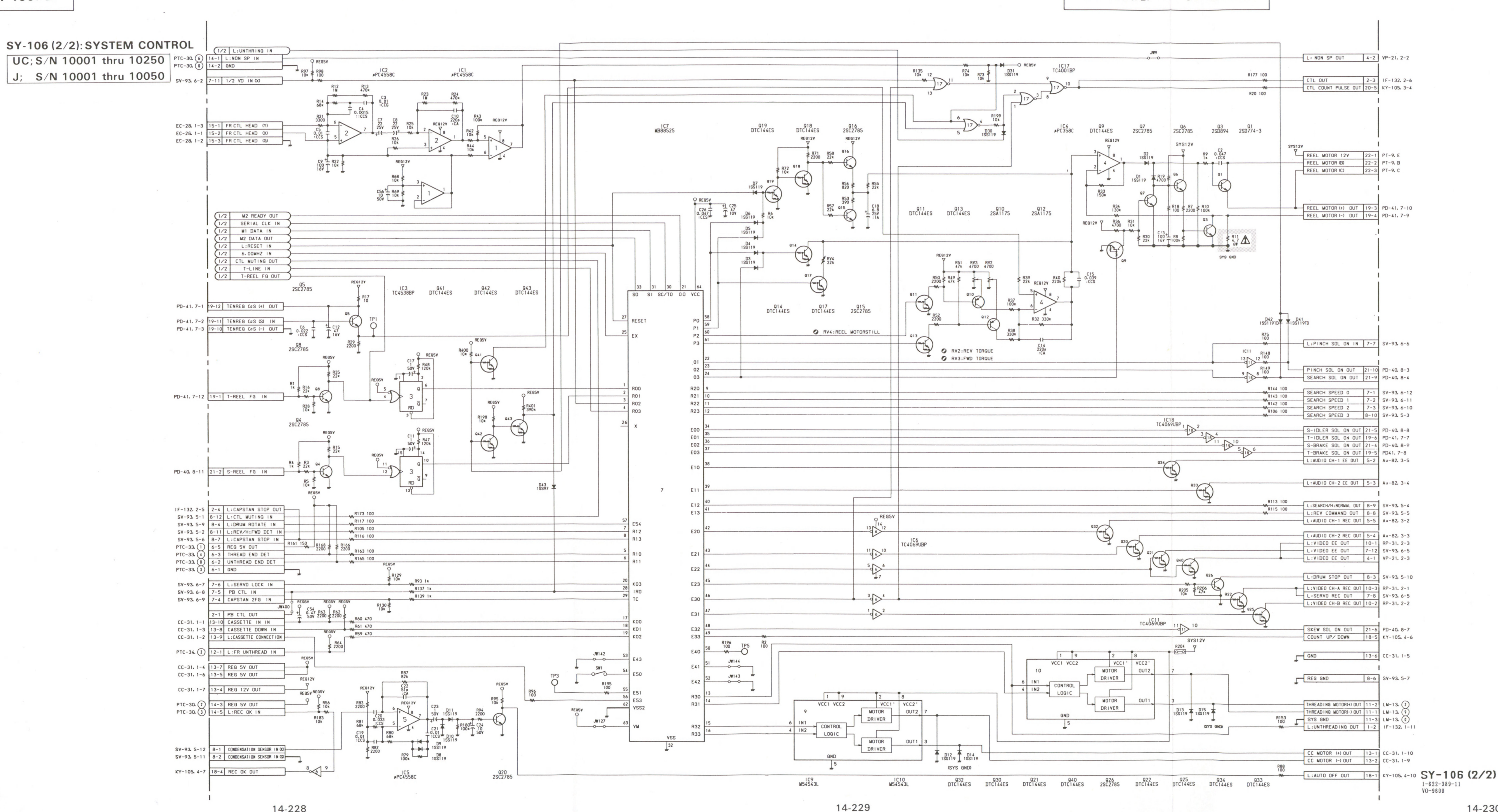
UC; S/N 10001 thru 10250
J; S/N 10001 thru 10050

SY-106 (1-622-389-11)

BT1	B-4	IC1	J-5	Q37	C-5
		IC2	K-5	Q38	D-2
CN501	B-6	IC3	G-2	Q39	C-5
CN502	B-6	IC4	L-1	Q40	D-6
CN503	A-5	IC5	G-5	Q41	F-2
CN504	A-5	IC6	F-5	Q42	F-2
CN505	C-6	IC7	G-4	Q43	F-2
CN506	B-3	IC8	H-1		
CN507	D-6	IC9	K-4	RV1	K-1
CN508	F-6	IC10	K-4	RV2	J-1
CN509	J-4	IC11	D-2	RV3	J-1
CN510	C-6	IC12	C-4	RV4	H-1
CN511	J-4	IC13	D-3		
CN512	J-4	IC14	C-3	SW1	D-1
CN513	L-6	IC15	B-2		
CN514	K-4	IC17	H-6	TP1	L-1
CN515	J-6	IC18	L-3	TP2	K-1
CN516	L-5	IC19	C-2	TP3	E-1
CN517	M-5	IC20	C-3	TP4	E-1
CN518	M-6			TP5	E-1
CN519	M-4	Q1	M-2	TP7	M-1
CN520	M-5	Q3	M-2		
CN521	N-4	Q4	G-2	X1	D-3
CN522	L-5	Q5	L-3	X2	C-3
		Q6	L-2		
D1	L-2	Q7	L-2		
D2	L-2	Q8	H-2		
D3	J-2	Q9	K-2		
D4	J-2	Q10	K-2		
D5	J-2	Q11	K-3		
D6	J-2	Q12	K-2		
D7	J-2	Q13	K-3		
D8	H-6	Q14	J-2		
D9	H-6	Q15	K-2		
D10	G-6	Q16	K-1		
D11	G-6	Q17	J-2		
D12	L-4	Q18	J-2		
D13	K-4	Q19	J-2		
D14	K-4	Q20	G-5		
D15	K-4	Q21	D-5		
D16	D-1	Q22	D-5		
D17	D-2	Q23	D-2		
D18	E-2	Q24	E-2		
D20	B-1	Q25	D-5		
D21	A-2	Q26	F-6		
D22	A-2	Q27	E-2		
D23	B-2	Q28	F-2		
D24	B-1	Q29	E-2		
D25	D-2	Q30	C-6		
D28	A-4	Q31	H-2		
D29	A-4	Q32	C-6		
D30	H-6	Q33	C-6		
D31	K-6	Q34	C-6		
		Q35	A-1		
E1	H-1	Q36	C-5		



SY-106
-COMPONENT SIDE-
1-622-389-11
VO-9600



注意1：⚠印及び░░░で囲まれた部品は安全性を維持するために重要な部品です 従って交換する時は必ず指定の部品を使って下さい

NOTE;

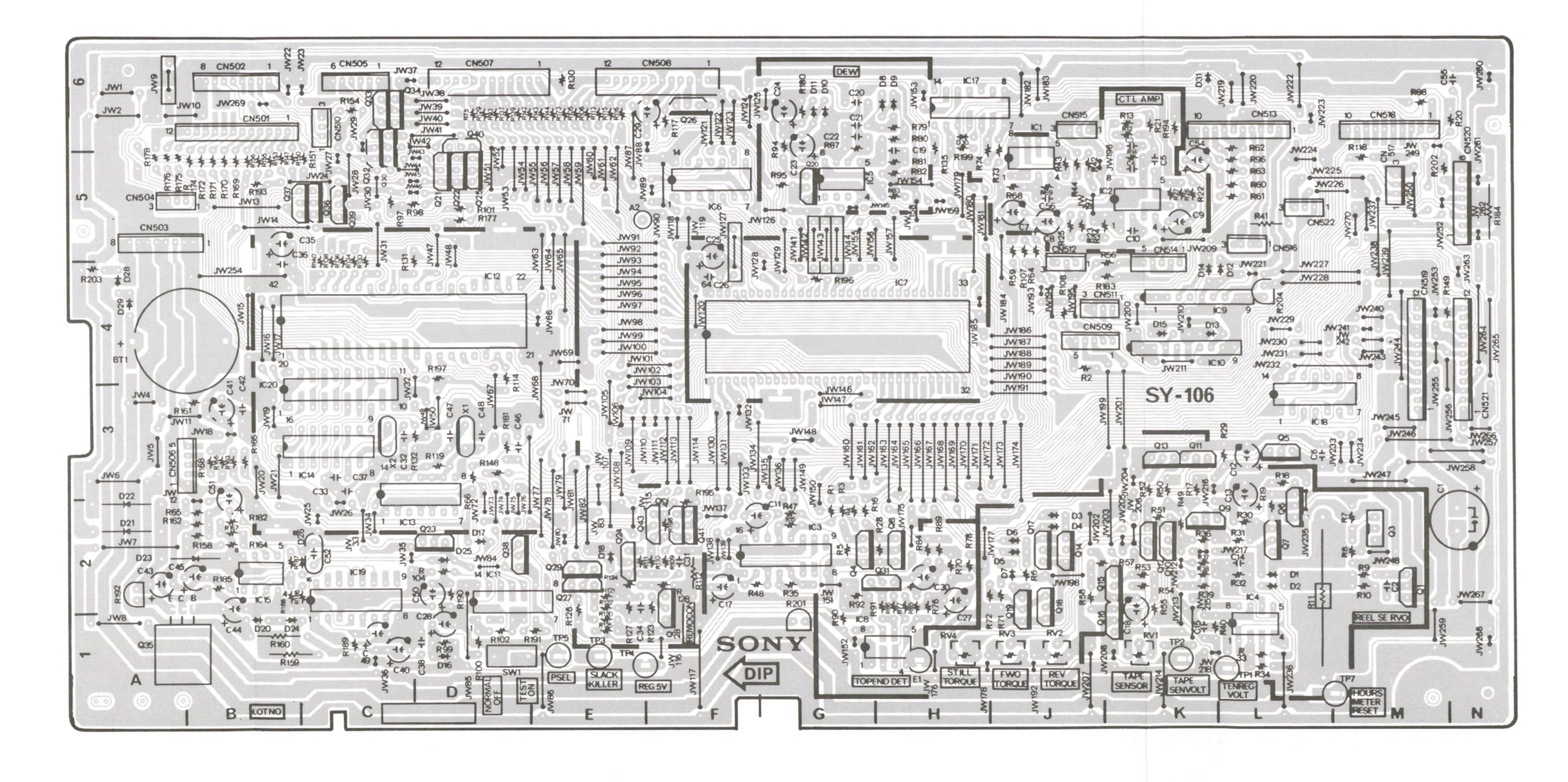
The shaded and ⚠-marked components are critical to safety.
Replace only with same components as specified.

SY-106(2/2): SYSTEM CONTROL

UC; S/N 10001 thru 10250
J; S/N 10001 thru 10050

SY-106 (1-622-389-11)

BT1	B-4	IC1	J-5	Q37	C-5
		IC2	K-5	Q38	D-2
CN501	B-6	IC3	G-2	Q39	C-5
CN502	B-6	IC4	L-1	Q40	D-6
CN503	A-5	IC5	G-5	Q41	F-2
CN504	A-5	IC6	F-5	Q42	F-2
CN505	C-6	IC7	G-4	Q43	F-2
CN506	B-3	IC8	H-1		
CN507	D-6	IC9	K-4	RV1	K-1
CN508	F-6	IC10	K-4	RV2	J-1
CN509	J-4	IC11	D-2	RV3	J-1
CN510	C-6	IC12	C-4	RV4	H-1
CN511	J-4	IC13	D-3		
CN512	J-4	IC14	C-3	SW1	D-1
CN513	L-6	IC15	B-2		
CN514	K-4	IC17	H-6	TP1	L-1
CN515	J-6	IC18	L-3	TP2	K-1
CN516	L-5	IC19	C-2	TP3	E-1
CN517	M-5	IC20	C-3	TP4	E-1
CN518	M-6			TP5	E-1
CN519	M-4	Q1	M-2	TP7	M-1
CN520	M-5	Q3	M-2		
CN521	N-4	Q4	G-2	X1	D-3
CN522	L-5	Q5	L-3	X2	C-3
		Q6	L-2		
D1	L-2	Q7	L-2		
D2	L-2	Q8	H-2		
D3	J-2	Q9	K-2		
D4	J-2	Q10	K-2		
D5	J-2	Q11	K-3		
D6	J-2	Q12	K-2		
D7	J-2	Q13	K-3		
D8	H-6	Q14	J-2		
D9	H-6	Q15	K-2		
D10	G-6	Q16	K-1		
D11	G-6	Q17	J-2		
D12	L-4	Q18	J-2		
D13	K-4	Q19	J-2		
D14	K-4	Q20	G-5		
D15	K-4	Q21	D-5		
D16	D-1	Q22	D-5		
D17	D-2	Q23	D-2		
D18	E-2	Q24	E-2		
D20	B-1	Q25	D-5		
D21	A-2	Q26	F-6		
D22	A-2	Q27	E-2		
D23	B-2	Q28	F-2		
D24	B-1	Q29	E-2		
D25	D-2	Q30	C-6		
D28	A-4	Q31	H-2		
D29	A-4	Q32	C-6		
D30	H-6	Q33	C-6		
D31	K-6	Q34	C-6		
		Q35	A-1		
E1	H-1	Q36	C-5		

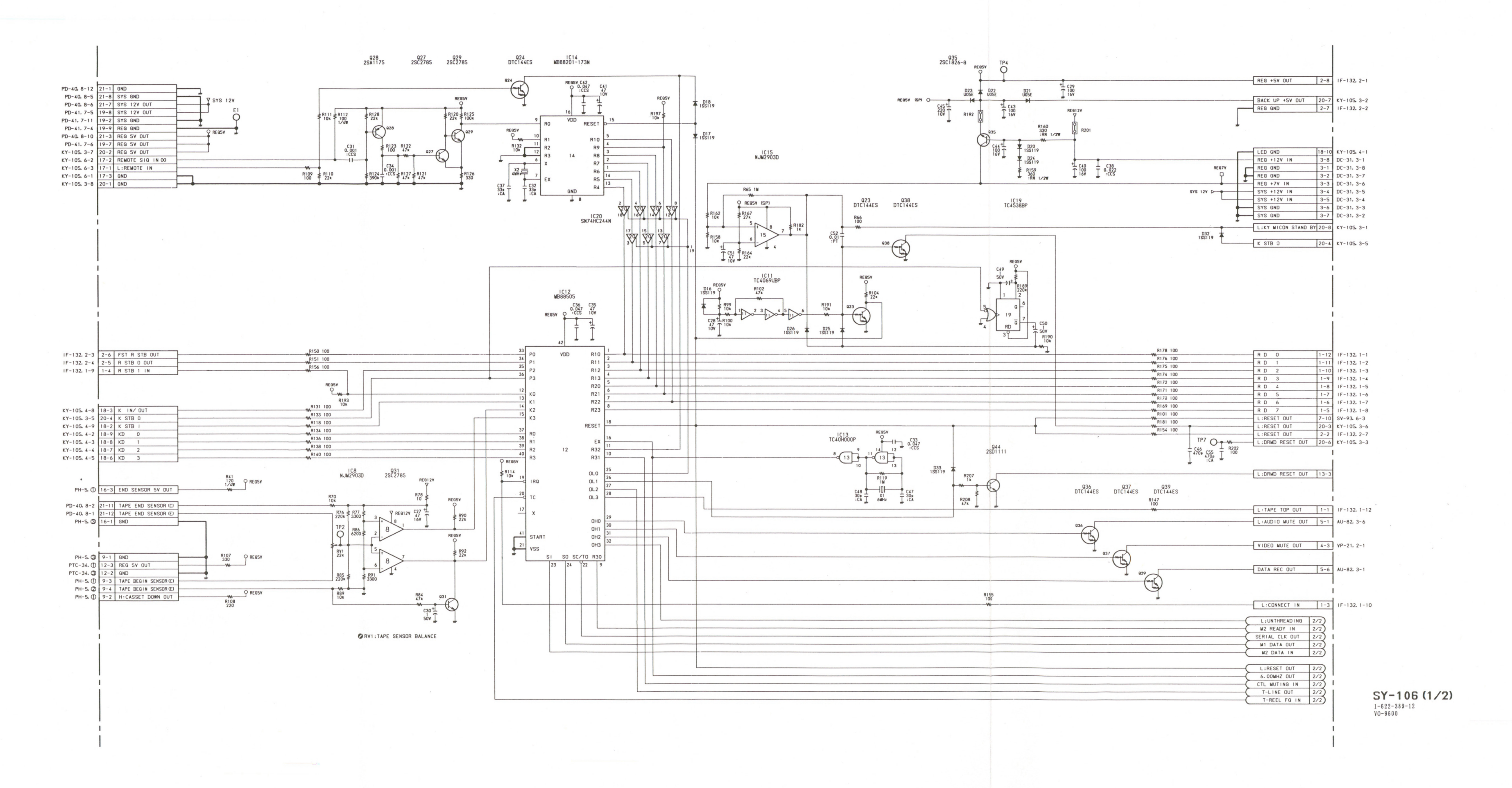


SY-106
-COMPONENT SIDE-
1-622-389-11
VO-9600

SY-106(1/2): SYSTEM CONTROL

UC; S/N 10251 thru 11350

J; S/N 10051 thru 10200



SY-106 (1/2)

1-622-389-12

VO-9600

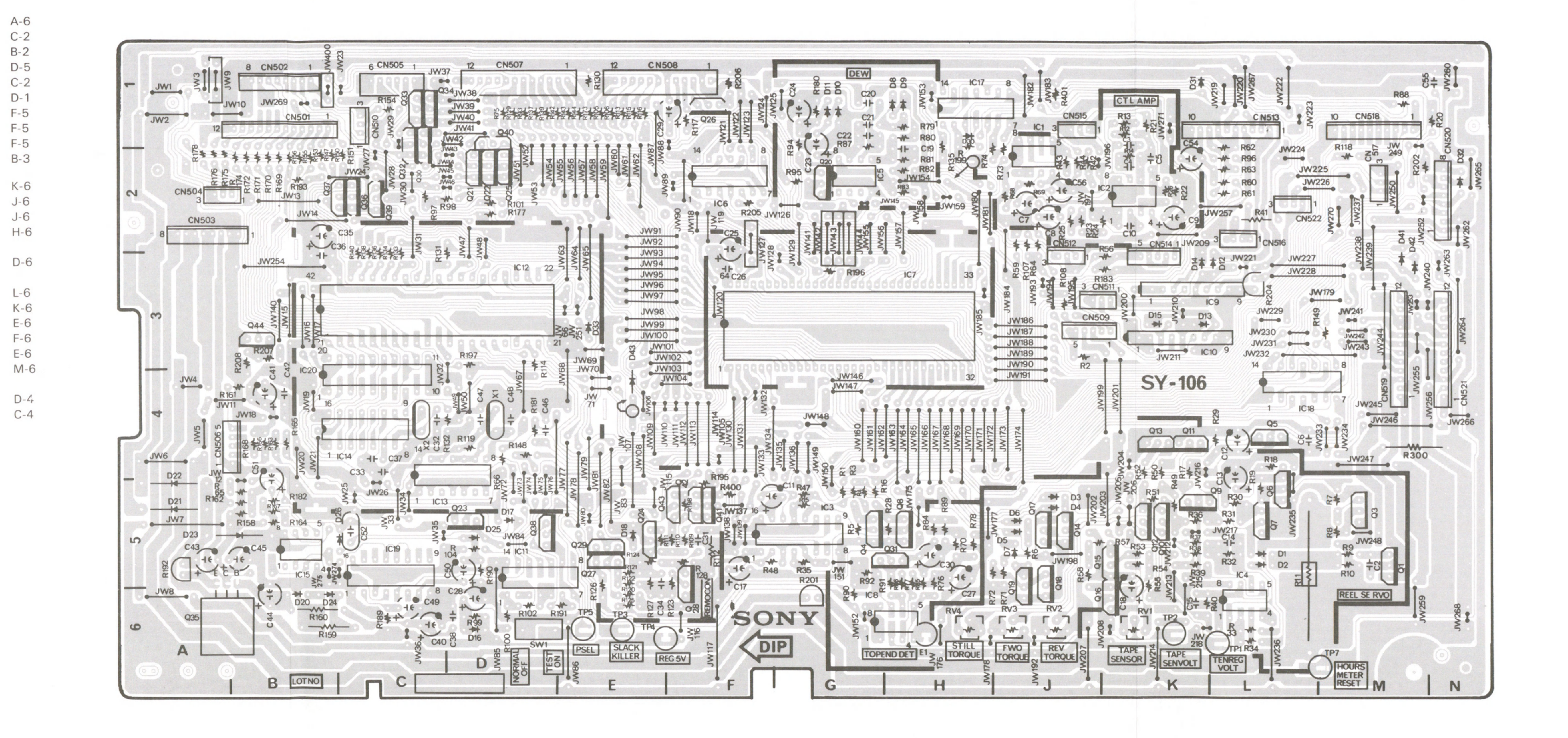
SY-106 (½)

SY-106(1/2):SYSTEM CONTROL

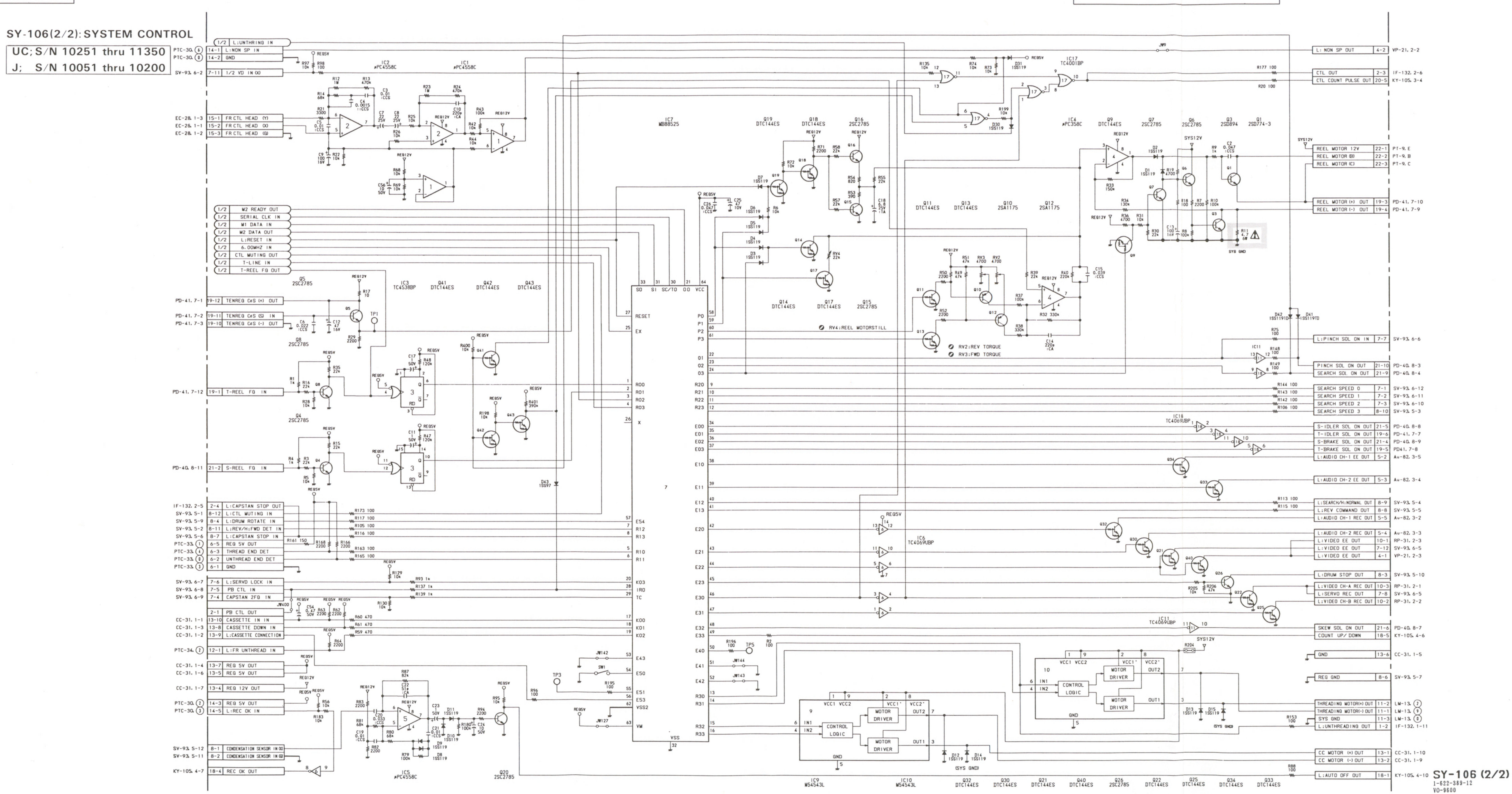
UC; S/N 10251 thru 11350
J;　S/N 10051 thru 10200

SY-106 (1-622-389-12)

CN501	B-1	E1	H-6	Q35	A-6
CN502	B-1			Q36	C-2
CN503	A-2	IC1	J-2	Q37	B-2
CN504	A-2	IC2	K-2	Q38	D-5
CN505	C-1	IC3	G-5	Q39	C-2
CN506	B-4	IC4	L-6	Q40	D-1
CN507	D-1	IC5	G-2	Q41	F-5
CN508	E-1	IC6	F-2	Q42	F-5
CN509	J-3	IC7	G-3	Q43	F-5
CN510	C-1	IC8	H-6	Q44	B-3
CN511	J-3	IC9	K-3		
CN512	J-3	IC10	K-3	RV1	K-6
CN513	L-1	IC11	D-5	RV2	J-6
CN514	K-3	IC12	C-3	RV3	J-6
CN515	J-1	IC13	D-4	RV4	H-6
CN516	L-2	IC14	C-4		
CN517	M-2	IC15	B-5	SW1	D-6
CN518	M-1	IC17	H-1		
CN519	M-3	IC18	L-4	TP1	L-6
CN520	N-2	IC19	C-5	TP2	K-6
CN521	N-3	IC20	C-4	TP3	E-6
CN522	L-2			TP4	F-6
		Q1	M-5	TP5	E-6
D1	L-5	Q3	M-5	TP7	M-6
D2	L-5	Q4	G-5		
D3	J-5	Q5	L-4	X1	D-4
D4	J-5	Q6	L-5	X2	C-4
D5	J-5	Q7	L-5		
D6	J-5	Q8	H-5		
D7	J-5	Q9	K-5		
D8	H-1	Q10	K-5		
D9	H-1	Q11	K-4		
D10	G-1	Q12	K-5		
D11	G-1	Q13	K-4		
D12	L-3	Q14	J-5		
D13	K-3	Q15	K-5		
D14	K-3	Q16	K-6		
D15	K-3	Q17	J-5		
D16	D-6	Q18	J-5		
D17	D-5	Q19	J-5		
D18	E-5	Q20	G-2		
D20	B-6	Q21	D-2		
D21	A-5	Q22	D-2		
D22	A-5	Q23	D-5		
D23	B-5	Q24	E-5		
D24	B-6	Q25	D-2		
D25	D-5	Q26	F-1		
D26	C-5	Q27	E-5		
D30	H-1	Q28	F-5		
D31	K-1	Q29	E-5		
D32	N-2	Q30	C-1		
D33	E-3	Q31	H-5		
D41	M-3	Q32	C-1		
D42	M-3	Q33	C-1		
D43	E-4	Q34	C-1		



SY-106
-COMPONENT SIDE-
1-622-389-12
VO-9600



SY-106 (2/2)
1-622-389-12
VO-9600

注意 1：⚠印及び　　で囲まれた部品は安全性を維持するために重要な部品です。従って交換する時は必ず指定の部品を使って下さい。

NOTE;

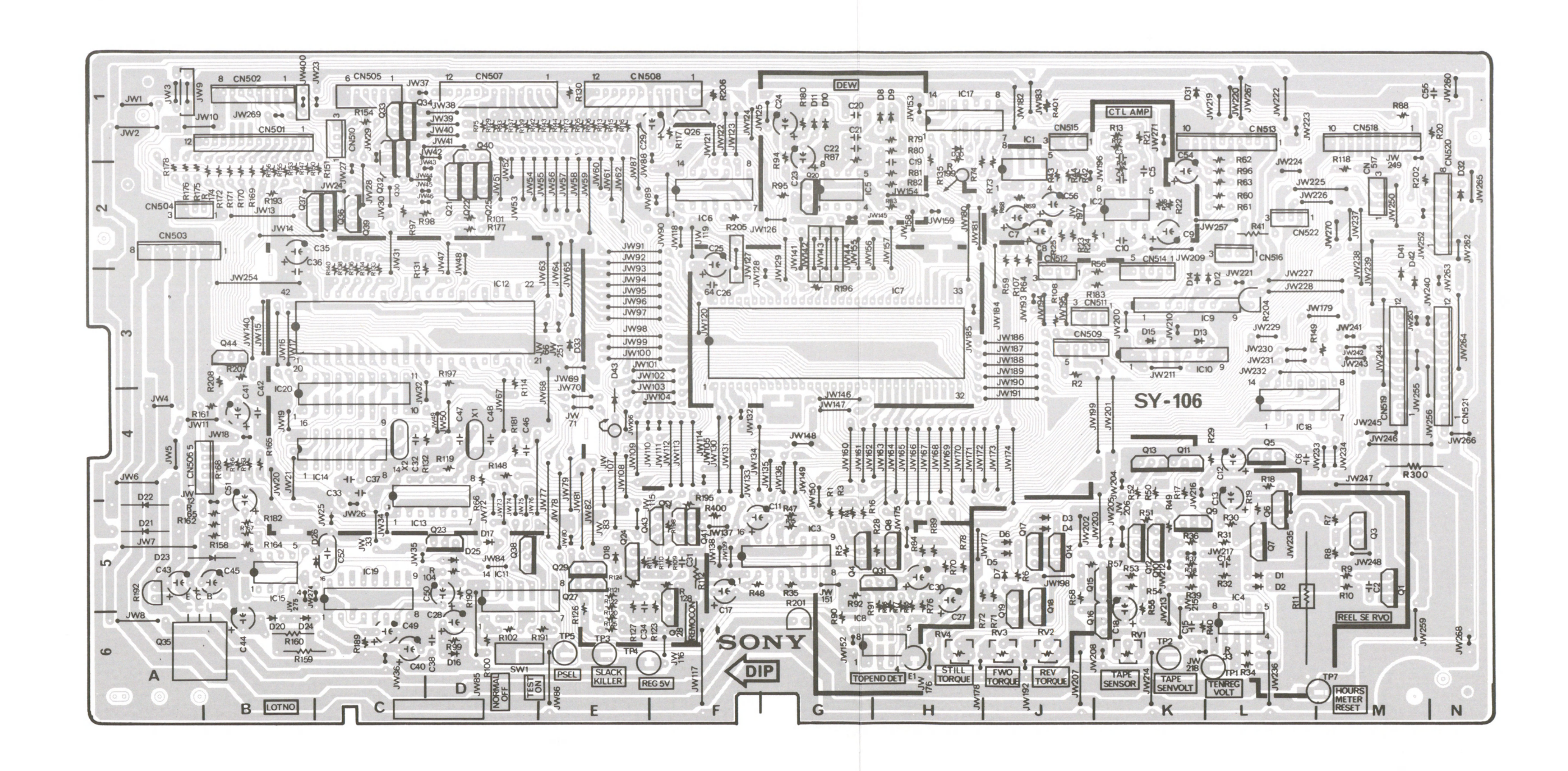
The shaded and ⚠-marked components are critical to safety.
Replace only with same components as specified.

SY-106(2/2): SYSTEM CONTROL

UC; S/N 10251 thru 11350
J; S/N 10051 thru 10200

SY-106 (1-622-389-12)

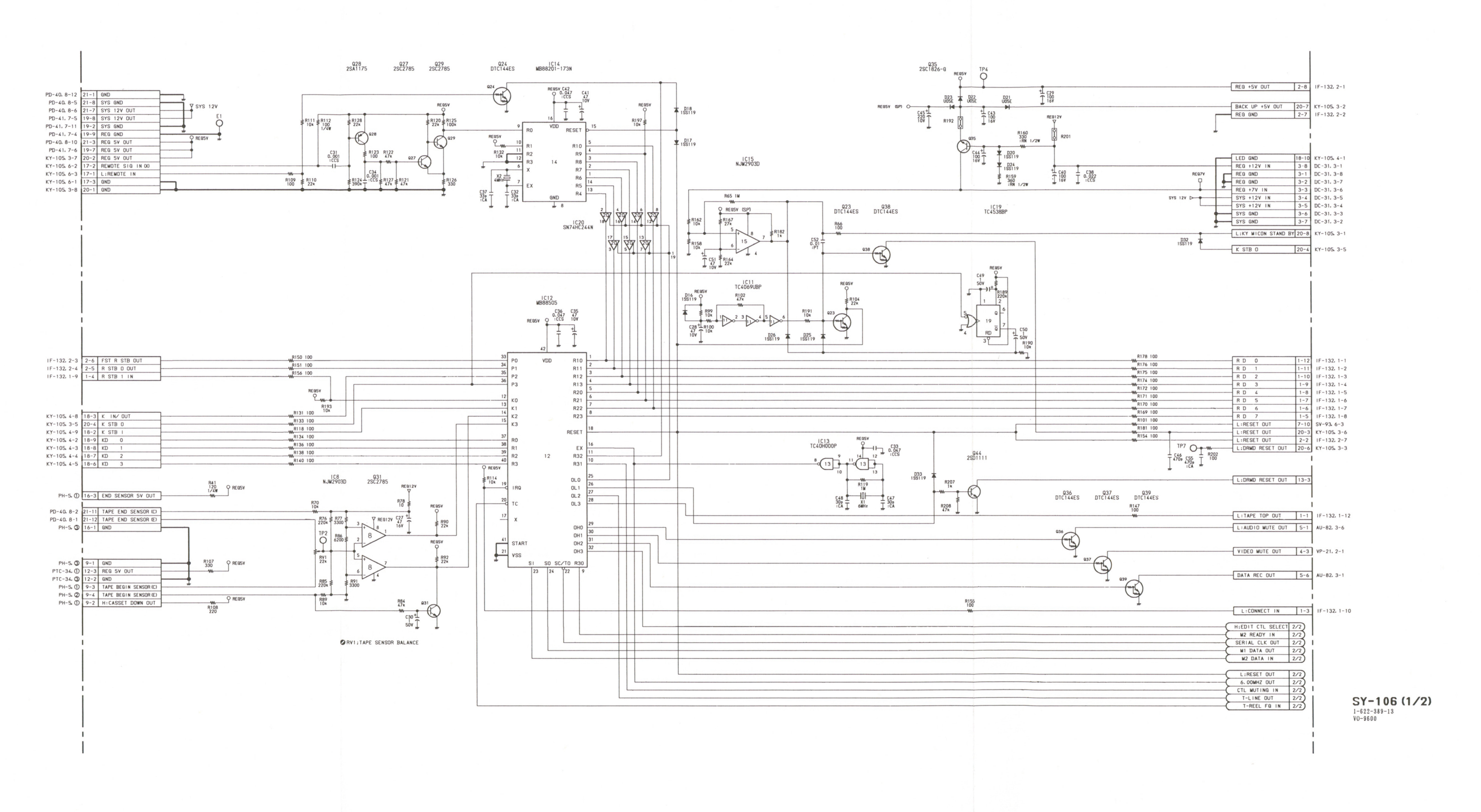
CN501	B-1
CN502	B-1
CN503	A-2
CN504	A-2
CN505	C-1
CN506	B-4
CN507	D-1
CN508	E-1
CN509	J-3
CN510	C-1
CN511	J-3
CN512	J-3
CN513	L-1
CN514	K-3
CN515	J-1
CN516	L-2
CN517	M-2
CN518	M-1
CN519	M-3
CN520	N-2
CN521	N-3
CN522	L-2
D1	L-5
D2	L-5
D3	J-5
D4	J-5
D5	J-5
D6	J-5
D7	J-5
D8	H-1
D9	H-1
D10	G-1
D11	G-1
D12	L-3
D13	K-3
D14	K-3
D15	K-3
D16	D-6
D17	D-5
D18	E-5
D20	B-6
D21	A-5
D22	A-5
D23	B-5
D24	B-6
D25	D-5
D26	C-5
D30	H-1
D31	K-1
D32	N-2
D33	E-3
D41	M-3
D42	M-3
D43	E-4
E1	H-6
IC1	J-2
IC2	K-2
IC3	G-5
IC4	L-6
IC5	G-2
IC6	F-2
IC7	G-3
IC8	H-6
IC9	K-3
IC10	K-3
IC11	D-5
IC12	C-3
IC13	D-4
IC14	C-4
IC15	B-5
IC17	H-1
IC18	L-4
IC19	C-5
IC20	C-4
Q1	M-5
Q3	M-5
Q4	G-5
Q5	L-4
Q6	L-5
Q7	L-5
Q8	H-5
Q9	K-5
Q10	K-5
Q11	K-4
Q12	K-5
Q13	K-4
Q14	J-5
Q15	K-5
Q16	K-6
Q17	J-5
Q18	J-5
Q19	J-5
Q20	G-2
Q21	D-2
Q22	D-2
Q23	D-5
Q24	E-5
Q25	D-2
Q26	F-1
Q27	E-5
Q28	F-5
Q29	E-5
Q30	C-1
Q31	H-5
Q32	C-1
Q33	C-1
Q34	C-1
Q35	A-6
Q36	C-2
Q37	B-2
Q38	D-5
Q39	C-2
Q40	D-1
Q41	F-5
Q42	F-5
Q43	F-5
Q44	B-3
RV1	K-6
RV2	J-6
RV3	J-6
RV4	H-6
SW1	D-6
TP1	L-6
TP2	K-6
TP3	E-6
TP4	F-6
TP5	E-6
TP7	M-6
X1	D-4
X2	C-4



SY-106
-COMPONENT SIDE-
1-622-389-12
VO-9600

SY-106(1/2): SYSTEM CONTROL

UC; S/N 11351 and higher
J;   S/N 10201 and higher



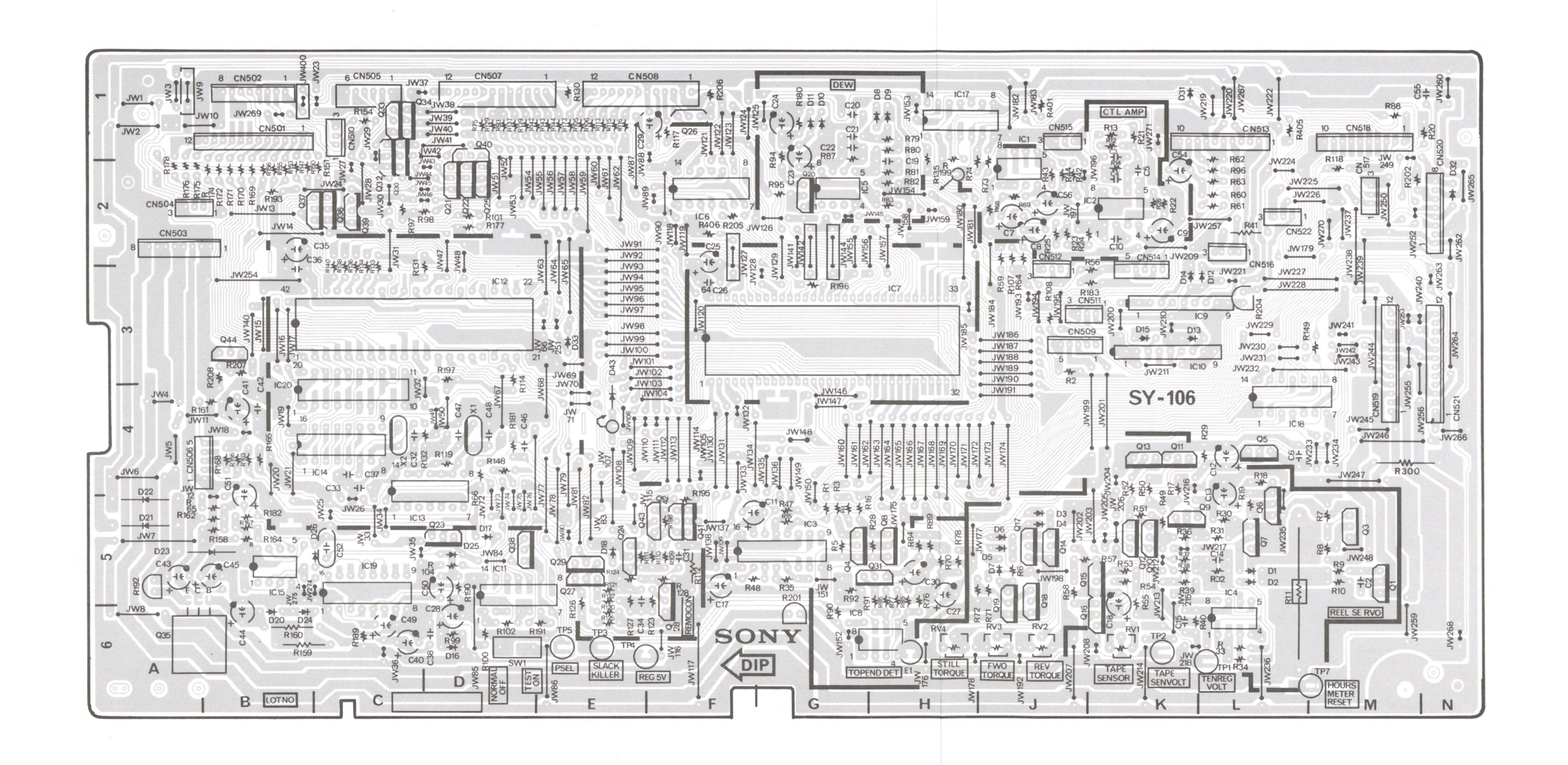
SY-106(½)

SY-106(1/2): SYSTEM CONTROL

UC; S/N 11351 and higher
J; S/N 10201 and higher

SY-106 (1-622-389-13)

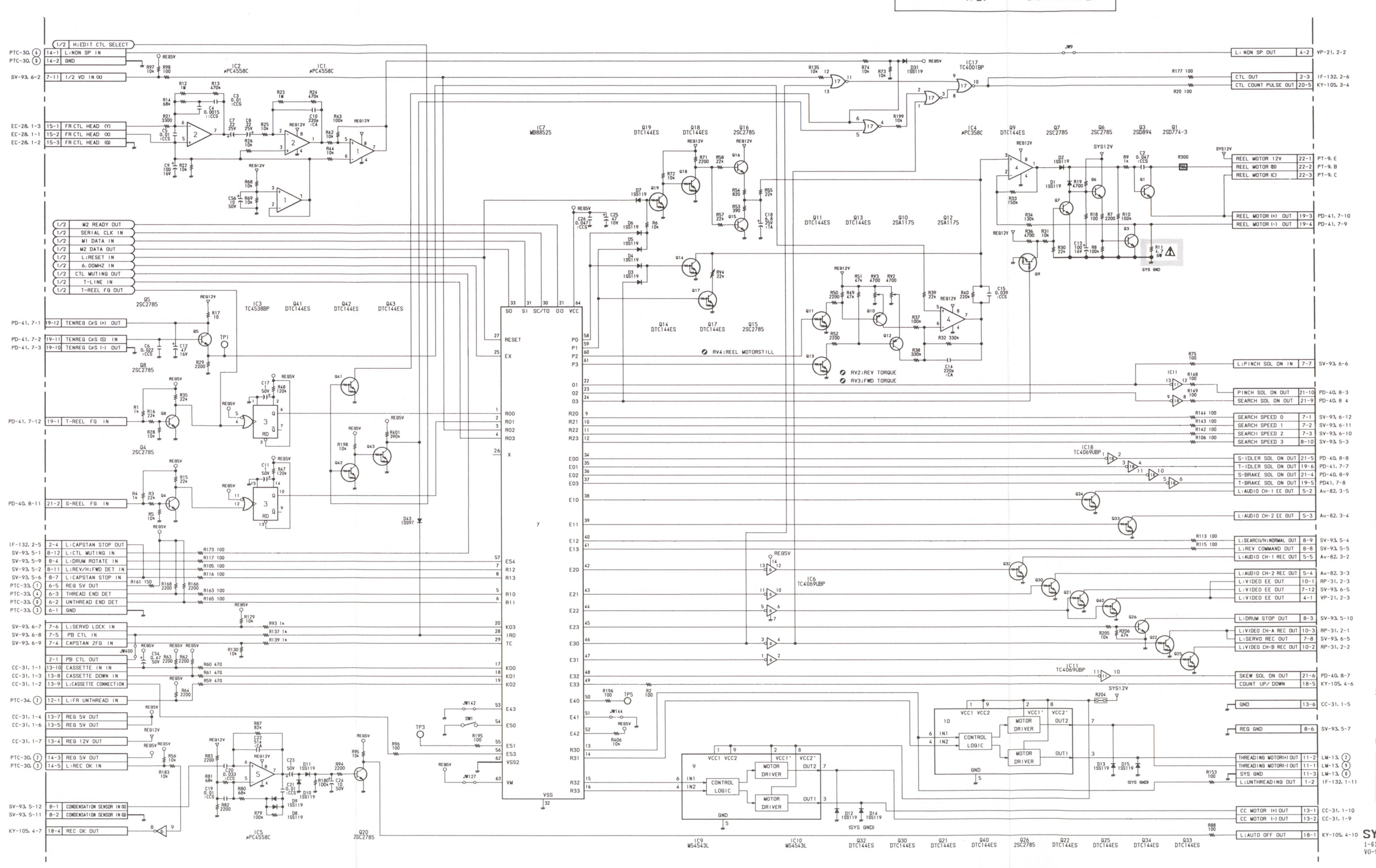
Ref.	Location
CN501	B-1
CN502	B-1
CN503	A-2
CN504	A-2
CN505	C-1
CN506	B-4
CN507	D-1
CN508	E-1
CN509	J-3
CN510	C-1
CN511	J-3
CN512	J-3
CN513	L-1
CN514	K-3
CN515	J-1
CN516	L-2
CN517	M-2
CN518	M-1
CN519	M-3
CN520	N-2
CN521	N-3
CN522	L-2
D1	L-5
D2	L-5
D3	J-5
D4	J-5
D5	J-5
D6	J-5
D7	J-5
D8	H-1
D9	H-1
D10	G-1
D11	G-1
D12	L-3
D13	K-3
D14	K-3
D15	K-3
D16	D-6
D17	D-5
D18	E-5
D20	B-6
D21	A-5
D22	A-5
D23	B-5
D24	B-6
D25	D-5
D26	C-5
D31	K-1
D32	N-2
D33	E-3
D43	E-4
E1	H-6
IC1	J-2
IC2	K-2
IC3	G-5
IC4	L-6
IC5	G-2
IC6	F-2
IC7	G-3
IC8	H-6
IC9	K-3
IC10	K-3
IC11	D-5
IC12	D-3
IC13	D-4
IC14	C-4
IC15	B-5
IC17	H-1
IC18	L-4
IC19	C-5
IC20	C-4
Q1	M-5
Q3	M-5
Q4	G-5
Q5	L-4
Q6	L-5
Q7	L-5
Q8	H-5
Q9	K-5
Q10	K-5
Q11	K-4
Q12	K-5
Q13	K-4
Q14	J-5
Q15	K-5
Q16	K-6
Q17	J-5
Q18	J-5
Q19	J-5
Q20	G-2
Q21	D-2
Q22	D-2
Q23	D-5
Q24	E-5
Q25	D-2
Q26	F-1
Q27	E-5
Q28	F-5
Q29	E-5
Q30	C-1
Q31	H-5
Q32	C-1
Q33	C-1
Q34	C-1
Q35	A-6
Q36	C-2
Q37	C-2
Q38	D-5
Q39	C-2
Q40	D-1
Q41	F-5
Q42	F-5
Q43	F-5
Q44	B-3
RV1	K-6
RV2	J-6
RV3	J-6
RV4	H-6
SW1	D-6
TP1	L-6
TP2	K-6
TP3	E-6
TP4	E-6
TP5	E-6
TP7	M-6
X1	D-4
X2	C-4



SY-106
-COMPONENT SIDE-
1-622-389-13
VO-9600

SY-106(2/2): SYSTEM CONTROL

UC; S/N 11351 and higher
J; S/N 10201 and higher



注意1：⚠印及び░░で囲まれた部品は安全性を維持するために重要な部品です。従って交換する時は必ず指定の部品を使って下さい。

NOTE;

The shaded and ⚠-marked components are critical to safety.
Replace only with same components as specified.

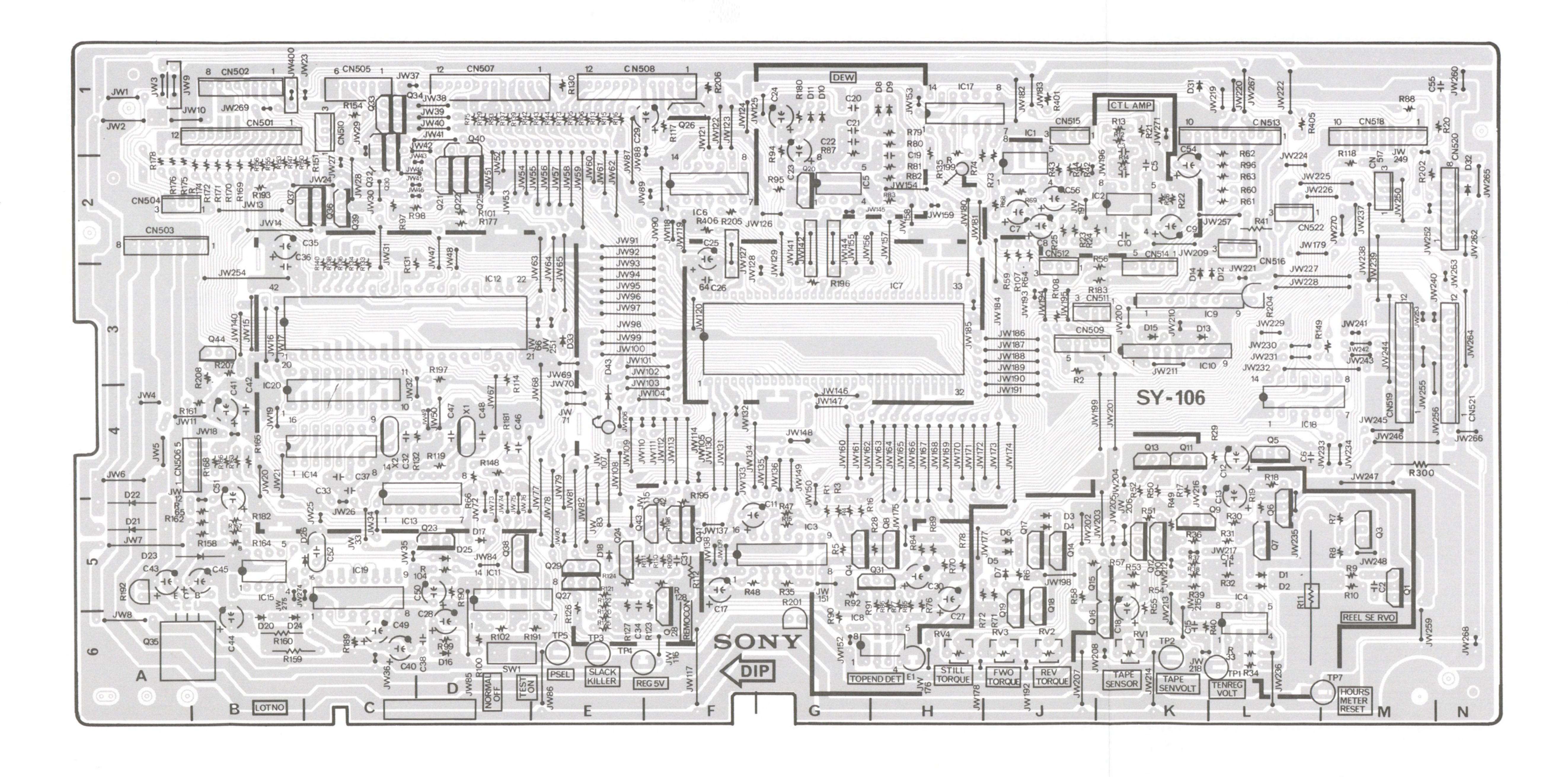
SY-106 (2/2)
1-622-389-13
VO-9600

SY-106(2/2): SYSTEM CONTROL

UC; S/N 11351 and higher
J; S/N 10201 and higher

SY-106 (1-622-389-13)

CN501	B-1
CN502	B-1
CN503	A-2
CN504	A-2
CN505	C-1
CN506	B-4
CN507	D-1
CN508	E-1
CN509	J-3
CN510	C-1
CN511	J-3
CN512	J-3
CN513	L-1
CN514	K-3
CN515	J-1
CN516	L-2
CN517	M-2
CN518	M-1
CN519	M-3
CN520	N-2
CN521	N-3
CN522	L-2
D1	L-5
D2	L-5
D3	J-5
D4	J-5
D5	J-5
D6	J-5
D7	J-5
D8	H-1
D9	H-1
D10	G-1
D11	G-1
D12	L-3
D13	K-3
D14	K-3
D15	K-3
D16	D-6
D17	D-5
D18	E-5
D20	B-6
D21	A-5
D22	A-5
D23	B-5
D24	B-6
D25	D-5
D26	C-5
D31	K-1
D32	N-2
D33	E-3
D43	E-4
E1	H-6
IC1	J-2
IC2	K-2
IC3	G-5
IC4	L-6
IC5	G-2
IC6	F-2
IC7	G-3
IC8	H-6
IC9	K-3
IC10	K-3
IC11	D-5
IC12	D-3
IC13	D-4
IC14	C-4
IC15	B-5
IC17	H-1
IC18	L-4
IC19	C-5
IC20	C-4
Q1	M-5
Q3	M-5
Q4	G-5
Q5	L-4
Q6	L-5
Q7	L-5
Q8	H-5
Q9	K-5
Q10	K-5
Q11	K-4
Q12	K-5
Q13	K-4
Q14	J-5
Q15	K-5
Q16	K-6
Q17	J-5
Q18	J-5
Q19	J-5
Q20	G-2
Q21	D-2
Q22	D-2
Q23	D-5
Q24	E-5
Q25	D-2
Q26	F-1
Q27	E-5
Q28	F-5
Q29	E-5
Q30	C-1
Q31	H-5
Q32	C-1
Q33	C-1
Q34	C-1
Q35	A-6
Q36	C-2
Q37	C-2
Q38	D-5
Q39	C-2
Q40	D-1
Q41	F-5
Q42	F-5
Q43	F-5
Q44	B-3
RV1	K-6
RV2	J-6
RV3	J-6
RV4	H-6
SW1	D-6
TP1	L-6
TP2	K-6
TP3	E-6
TP4	E-6
TP5	E-6
TP7	M-6
X1	D-4
X2	C-4



SY-106
-COMPONENT SIDE-
1-622-389-13
VO-9600

IF-132: 33P INTERFACE

UC; S/N 10001 thru 11870
J; S/N 10001 thru 10230

CN1021 REMOTE

L:FF COMMAND AND STATUS IN/OUT (12)
L:PLAY COMMAND AND STATUS IN/OUT (13)
L:REW COMMAND AND STATUS IN/OUT (11)
L:STOP COMMAND IN (8)
L:FWDX1 COMMAND AND STATUS IN/OUT (A)
L:EDIT COMMAND IN (6)
L:REC COMMAND IN (5)
L:PAUSE COMMAND IN (9)
L:FUNCTION ON IN (C)
L:FWD/REV COMMAND IN (10)
FORMAT DISCRIMINATION IN (S)
SERIAL DATA IN (L)

L:EDIT STATUS OUT (2)
L:REC STATUS OUT (3)
L:PAUSE STATUS OUT (17)
L:FUNCTION DISABLE OUT (19)
L:300 REMOTE IN/STAND-BY STATUS OUT (18)
SYSTEM CLOCK OUT (D)
SERIAL DATA OUT (K)
STROBE OUT (J)
L:CASSETTE IN STATUS OUT (7)
L:TAPE STOP OUT (16)
SEARCH SPEED IN (B)
L:TAPE BEGIN OUT (20)
CTL PULSE OUT (15)
DC 6.8V OUT (1)
GND (14)

SY-106 1-9 — 1-4 RD 3
SY-106 1-10 — 1-3 RD 2
SY-106 1-11 — 1-2 RD 1
SY-106 1-12 — 1-1 RD 0
SY-106 2-6 — 2-3 FST R STB IN
SY-106 2-5 — 2-4 R STB 0 IN
SY-106 1-4 — 1-9 R STB 1 OUT
SY-106 2-2 — 2-7 L:RESET IN
SY-106 2-8 — 2-1 REG +5V IN

SY-106 1-5 — 1-8 RD 7
SY-106 1-6 — 1-7 RD 6
SY-106 1-7 — 1-6 RD 5
SY-106 1-8 — 1-5 RD 4

TEST 0 (RD7) 6-7
TEST 1 (RD6) 6-5
TEST 2 (RD5) 6-4
TEST 3 (RD4) 6-4
TEST 4 (V.G) 6-2
TEST 5 (V.S) 6-3
TEST 6 (REG12V) 6-1

SY-106 1-1 — 1-12 L:TAPE TOP IN
SY-106 2-4 — 2-5 L:CAPSTAN STOP IN
SY-106 2-3 — 2-6 CTL IN
SY-106 1-2 — 1-11 L:UNTHREADING IN
DC-31, 5-5 — 4-1 REG GND
DC-31, 5-2 — 4-4 REG +7V (RW) IN
SY-106 1-3 — 1-10 L:CONNECT OUT
SY-106 2-7 — 2-2 REG GND
DC-31, 5-4 — 4-2 REG GND (RW)
DC-31, 5-3 — 4-3 —
DC-31, 5-1 — 4-5 REG +12V IN
NC — 2-8 —
NC — 3-1 —
VP-21, 11-2 — 3-2 PB Y IN (B)
VP-21, 11-1 — 3-3 PB Y IN (X)
AU-82, 11-3 — 5-1 RX DATA IN/OUT (X)
AU-82, 11-2 — 5-2 RX DATA IN/OUT (B)
AU-82, 11-1 — 5-3 L:RX JACK IN

RX DATA IN/OUT (X) (1)
RX DATA IN/OUT (B) (2)
L:RX JACK IN (3)
CN1022

The transistor which is not indicated is DTC144ES.
The diode which is not indicated is 1SS119.

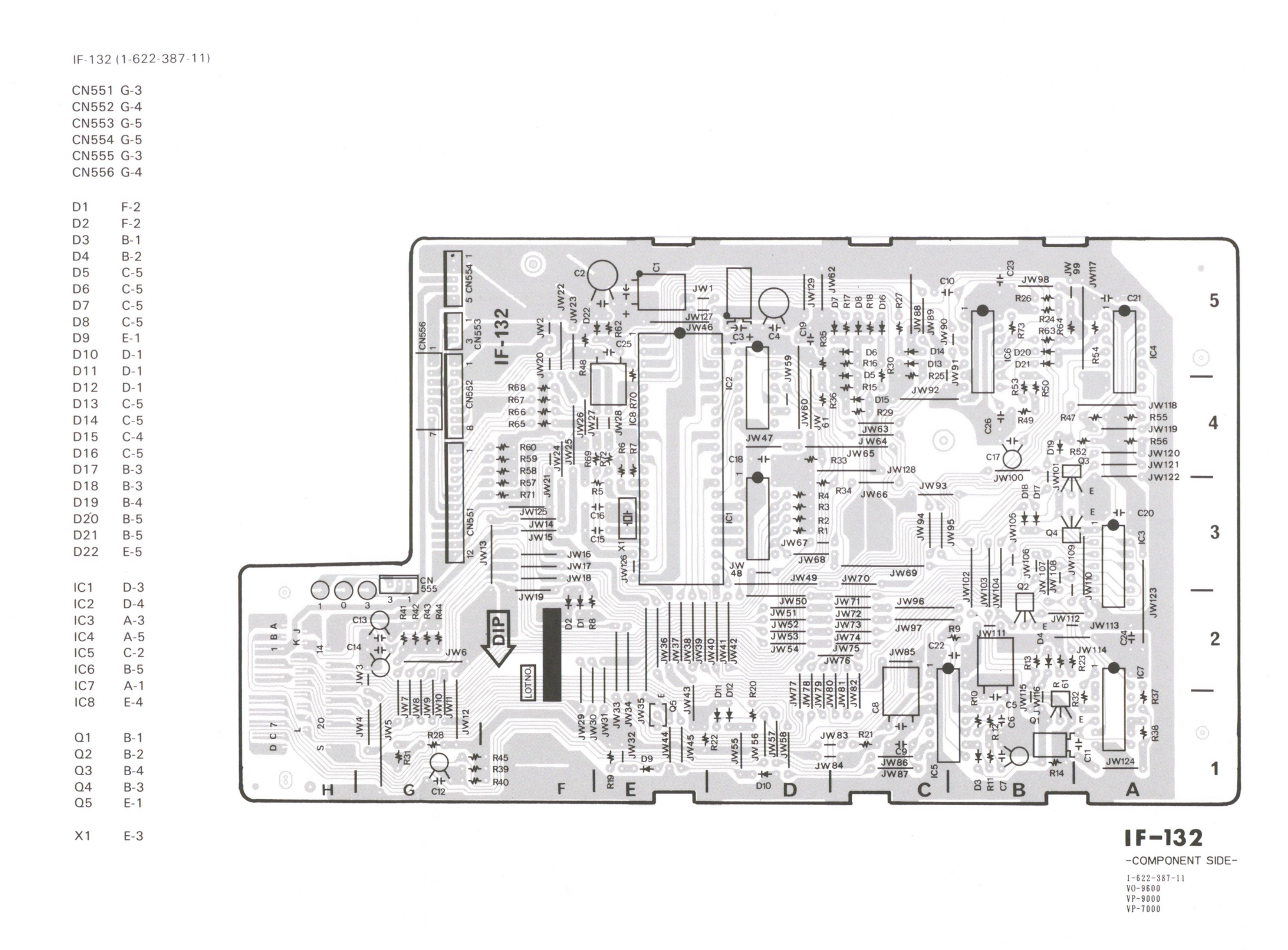
IF-132
1-622-387-11
VO-9600
VP-9000
VP-7000

IF-132:33P INTERFACE

UC; S/N 10001 thru 11870
J; S/N 10001 thru 10230

IF-132 (1-622-387-11)

CN551	G-3
CN552	G-4
CN553	G-5
CN554	G-5
CN555	G-3
CN556	G-4
D1	F-2
D2	F-2
D3	B-1
D4	B-2
D5	C-5
D6	C-5
D7	C-5
D8	C-5
D9	E-1
D10	D-1
D11	D-1
D12	D-1
D13	C-5
D14	C-5
D15	C-4
D16	C-5
D17	B-3
D18	B-3
D19	B-4
D20	B-5
D21	B-5
D22	E-5
IC1	D-3
IC2	D-4
IC3	A-3
IC4	A-5
IC5	C-2
IC6	B-5
IC7	A-1
IC8	E-4
Q1	B-1
Q2	B-2
Q3	B-4
Q4	B-3
Q5	E-1
X1	E-3



IF-132: 33P INTERFACE

UC; S/N 11871 and higher
J; S/N 10231 and higher

CN1021 REMOTE

Pin	Signal
(12)	L:FF COMMAND AND STATUS IN/OUT
(13)	L:PLAY COMMAND AND STATUS IN/OUT
(11)	L:REW COMMAND AND STATUS IN/OUT
(8)	L:STOP COMMAND IN
(A)	L:FWDX1 COMMAND AND STATUS IN/OUT
(6)	L:EDIT COMMAND IN
(5)	L:REC COMMAND IN
(9)	L:PAUSE COMMAND IN
(C)	L:FUNCTION ON IN
(10)	L:FWD/REV COMMAND IN
(4)	—
(M)	—
(N)	—
(P)	—
(Q)	—
(R)	—
(S)	FORMAT DISCRIMINATION IN
(L)	SERIAL DATA IN

	Pin	Signal
SY-106, 1-9	1-4	RD 3
SY-106, 1-10	1-3	RD 2
SY-106, 1-11	1-2	RD 1
SY-106, 1-12	1-1	RD 0
SY-106, 2-6	2-3	FST R STB IN
SY-106, 2-5	2-4	R STB 0 IN
SY-106, 1-4	1-9	R STB 1 OUT
SY-106, 2-2	2-7	L:RESET IN
	2-8	EDIT CTL IN
SY-106, 2-8	2-1	REG +5V IN
SY-106, 1-5	1-8	RD 7
SY-106, 1-6	1-7	RD 6
SY-106, 1-7	1-6	RD 5
SY-106, 1-8	1-5	RD 4

IC1 M54529AP
IC2 M54529AP
IC3 M54529AP
IC4 M54529AP
IC5 HD14538BP (1/2)
IC5 HD14538BP (2/2)
IC6 TC4030BP
IC7 TC4069UBP
IC8 MB88525

300 Ω "L"

Signal	Pin
TEST 0 (RD7)	6-7
TEST 1 (RD6)	6-6
TEST 2 (RD5)	6-5
TEST 3 (RD4)	6-4
TEST 4 (V. G)	6-2
TEST 5 (V. S)	6-3
TEST 6 (REG12V)	6-1

	Pin	Signal
SY-106, 1-1	1-12	L:TAPE TOP IN
SY-106, 2-4	2-5	L:CAPSTAN STOP IN
SY-106, 2-3	2-6	CTL IN
SY-106, 1-2	1-11	L:UNTHREADING IN
DC-31, 5-5	4-1	REG GND
DC-31, 5-2	4-4	REG +7V (RM) IN
SY-106, 1-3	1-10	L:CONNECT OUT
SY-106, 2-7	2-2	REG GND
DC-31, 5-4	4-2	REG GND (RM)
DC-31, 5-3	4-3	—
DC-31, 5-1	4-5	REG +12V IN
NC	2-8	—
NC	3-1	—
VP-21, 11-2	3-2	PB Y IN (G)
VP-21, 11-1	3-3	PB Y IN (X)
AU-82, 11-3	5-1	RX DATA IN/OUT (X)
AU-82, 11-2	5-2	RX DATA IN/OUT (G)
AU-82, 11-1	5-3	L:RX JACK OUT

CN1021 REMOTE

Signal	Pin
L:EDIT STATUS OUT	(2)
L:REC STATUS OUT	(3)
L:PAUSE STATUS OUT	(17)
L:FUNCTION DISABLE OUT	(19)
L:300 REMOTE IN/STAND-BY STATUS OUT	(18)
SYSTEM CLOCK OUT	(D)
SERIAL DATA OUT	(K)
STROBE OUT	(J)
L:CASSETTE IN STATUS OUT	(7)
L:TAPE STOP OUT	(16)
SEARCH SPEED IN	(B)
L:TAPE BEGIN OUT	(20)
CTL PULSE OUT	(15)
DC 6.8V OUT	(1)
GND	(14)

CN1022

Signal	Pin
RX DATA IN/OUT (X)	(1)
RX DATA IN/OUT (G)	(2)
L:RX JACK IN	(3)

The transistor which is not indicated is DTC144ES.
The diode which is not indicated is 1SS119.

IF-132
1-622-387-12
VO-9600
VP-9000
VP-7000

IF-132:33P INTERFACE

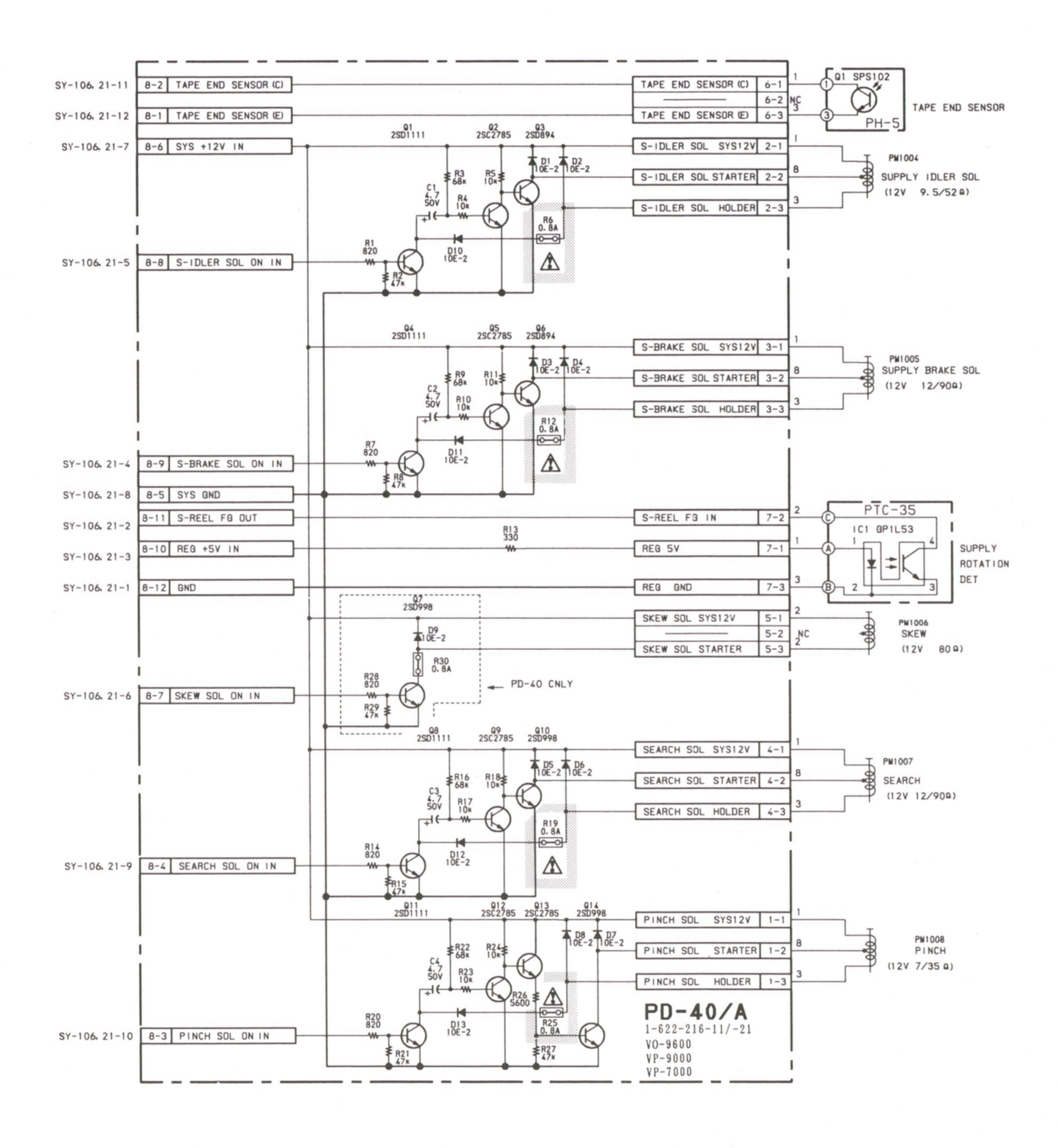
UC; S/N 11871 and higher
J; S/N 10231 and higher

IF-132 (1-622-387-12)

CN551	C-2
CN552	D-2
CN553	E-2
CN554	E-2
CN555	C-2
CN556	D-2
D1	B-3
D2	B-3
D3	A-8
D4	B-8
D5	A-4
D6	A-5
D7	A-5
D8	A-5
D9	A-7
D10	A-7
D13	A-4
D14	A-4
D15	A-3
D16	A-3
D19	D-8
D20	E-7
D21	E-7
D23	A-2
D24	A-2
D25	B-7
D26	B-7
IC1	C-5
IC2	D-6
IC3	C-8
IC4	E-8
IC5	B-7
IC6	E-7
IC7	B-6
IC8	D-4
Q1	B-8
Q2	B-8
Q3	D-8
Q4	C-8
Q5	B-3
X1	C-4

IF-132
-COMPONENT SIDE-
1-622-387-12
VO-9600
VP-9000
VP-7000

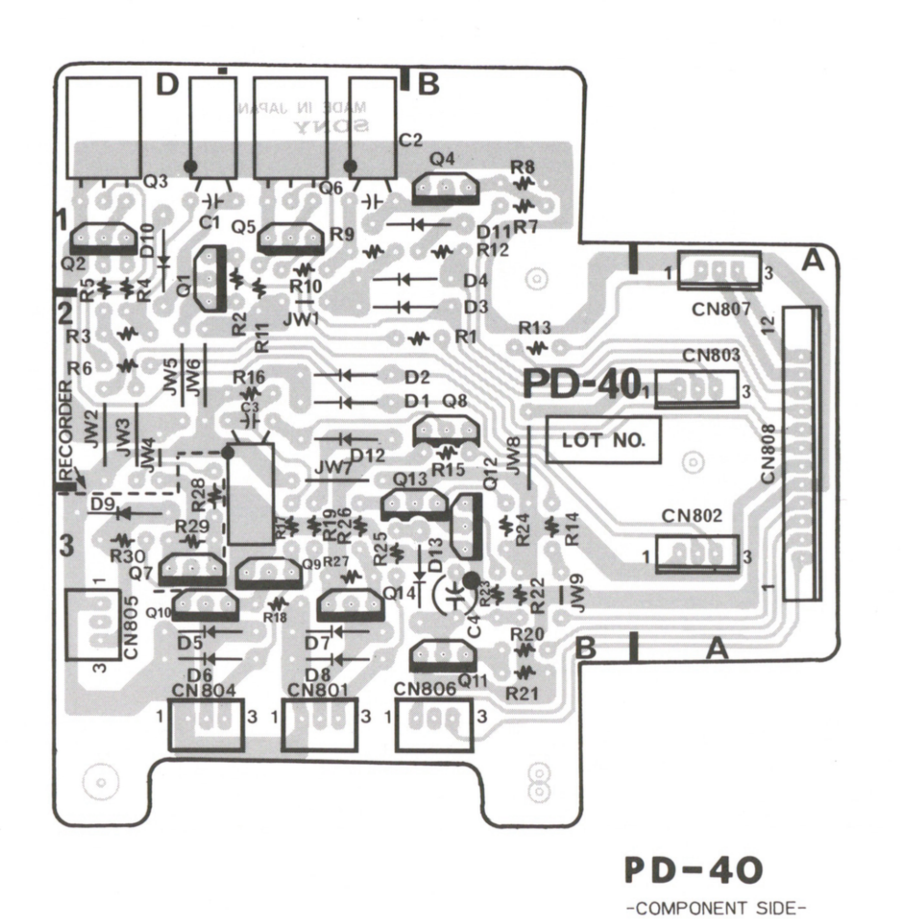
PD-40: PLUNGER SOLENOIDS



注意 1：⚠印及び░░░で囲まれた部品は安全性を維持するために重要な部品です。従って交換する時は必ず指定の部品を使って下さい。

NOTE;

The shaded and ⚠-marked components are critical to safety.
Replace only with same components as specified.

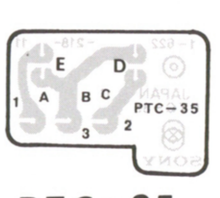


PD-40
-COMPONENT SIDE-
1-622-216-11
VO-9600

PH-5: TAPE BEGINNING/END SENSOR
PTC-35: S/T REEL ROTATION DETECTOR

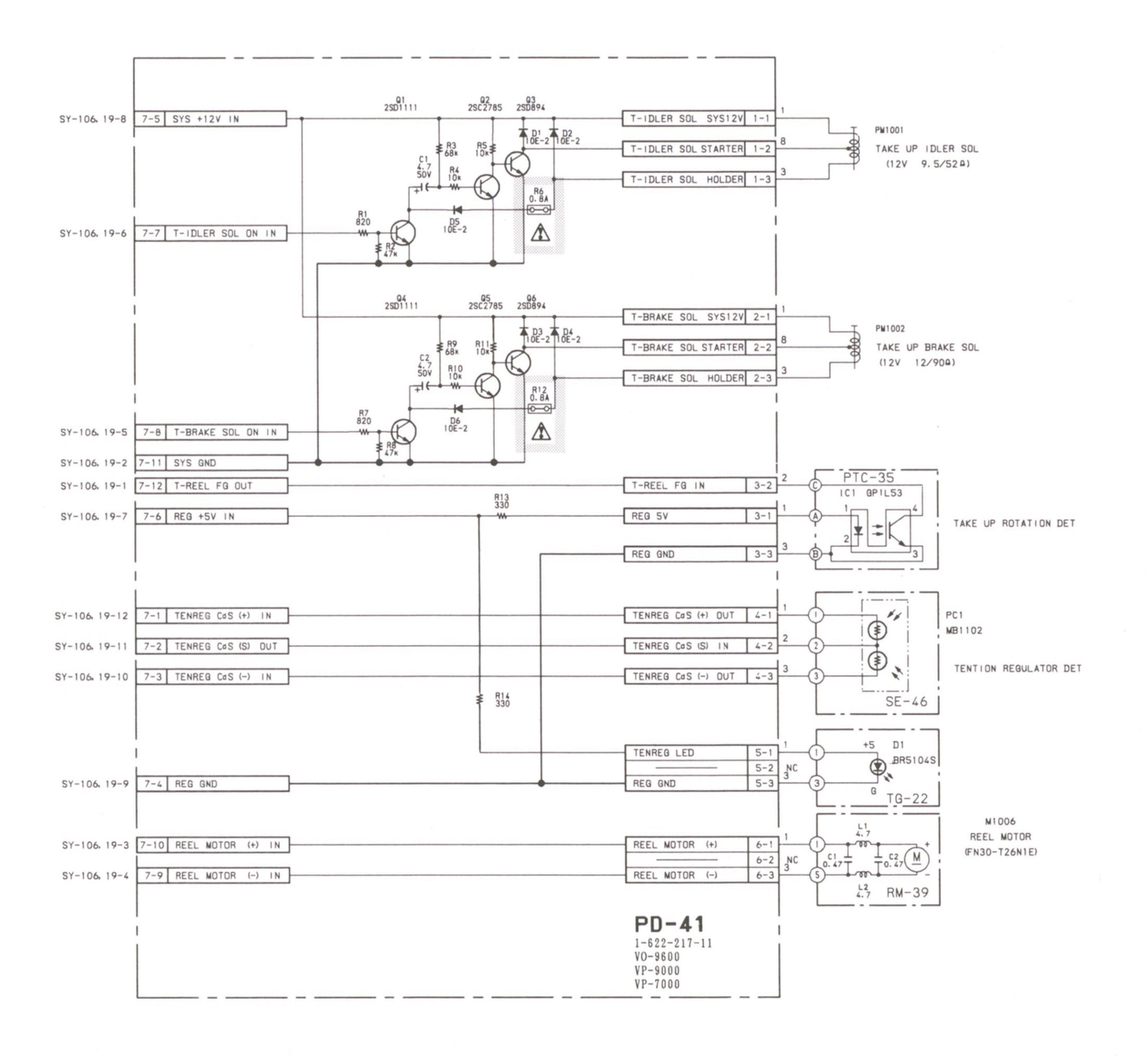


PH-5
-COMPONENT SIDE-
1-603-737-11
VO-9600



PTC-35
-COMPONENT SIDE-
1-622-218-11
VO-9600
VP-9000

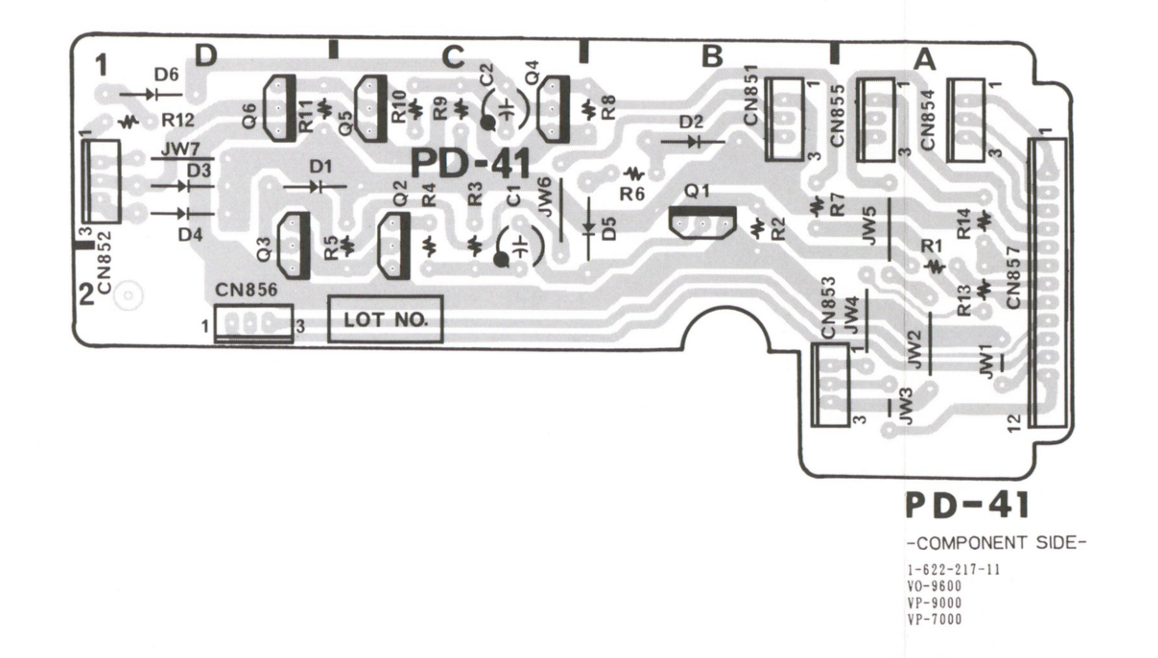
PD-41: PLUNGER SOLENOIDS



注意1：⚠印及び　　　で囲まれた部品は安全性を維持するために重要な部品です　従って交換する時は必ず指定の部品を使って下さい

NOTE;

The shaded and ⚠-marked components are critical to safety.
Replace only with same components as specified.

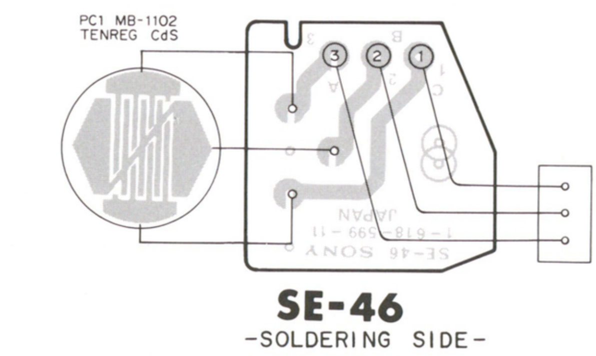


PD-41
-COMPONENT SIDE-
1-622-217-11
VO-9600
VP-9000
VP-7000

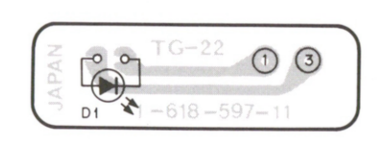
PTC-35: S/T REEL ROTATION DETECTOR
RM-39: REEL MOTOR
SE-46: TENSION REGULATOR DETECTOR
TG-22: TENSION REGULATOR LED

PTC-35
-COMPONENT SIDE-
1-622-218-11
VO-9600
VP-9000

RM-39 -SOLDERING SIDE-
1-618-873-11
VO-9600

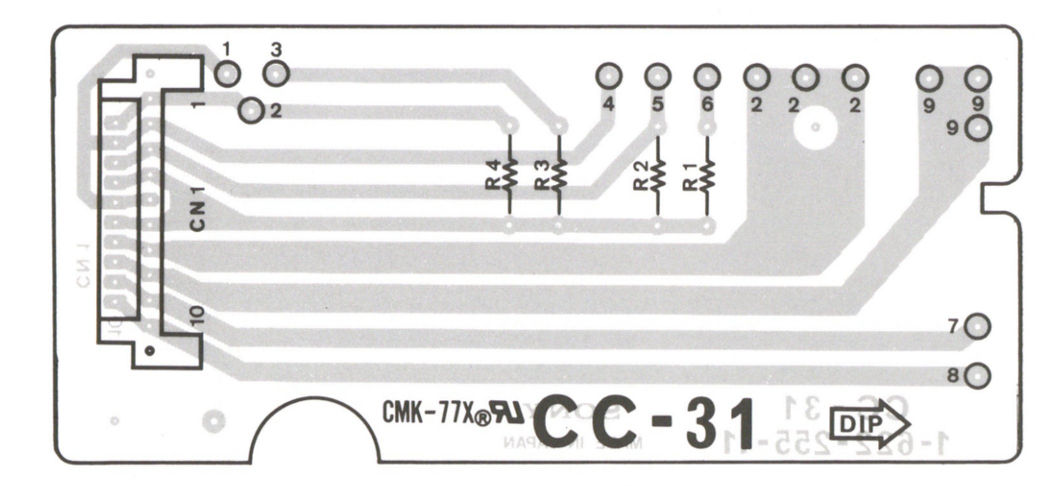


SE-46
-SOLDERING SIDE-
1-618-599-11
VO-9600

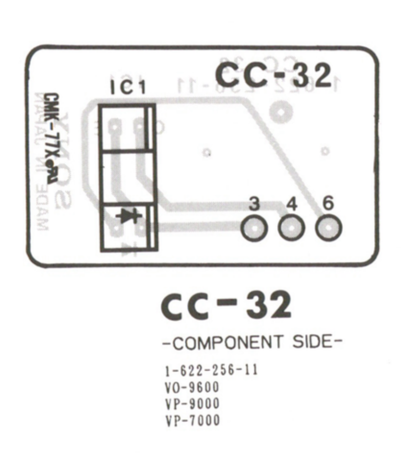


TG-22
-SOLDERING SIDE-
1-618-597-11
VO-9600

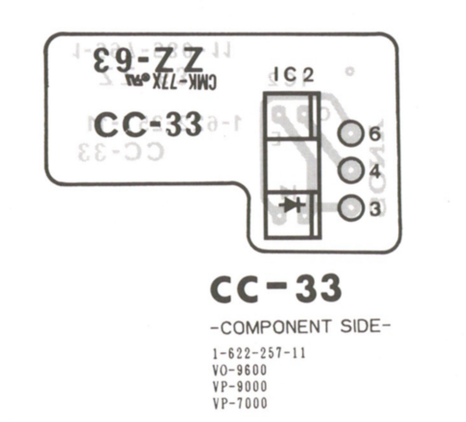
CC-31: CASSETTE COMPARTMENT DRIVER
CC-32: CASSETTE IN DETECTOR
CC-33: CASSETTE DOWN DETECTOR
LP-41: CASSETTE COMPARTMENT LIGHT



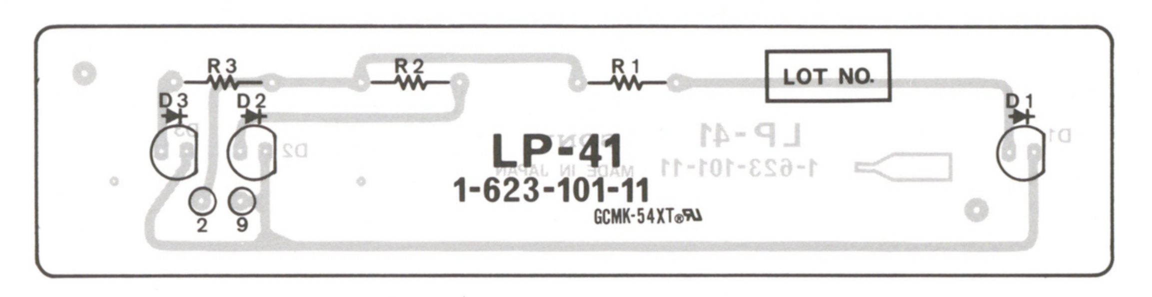
CC-31
-COMPONENT SIDE-
1-622-255-11
VO-9600
VP-9000
VP-7000



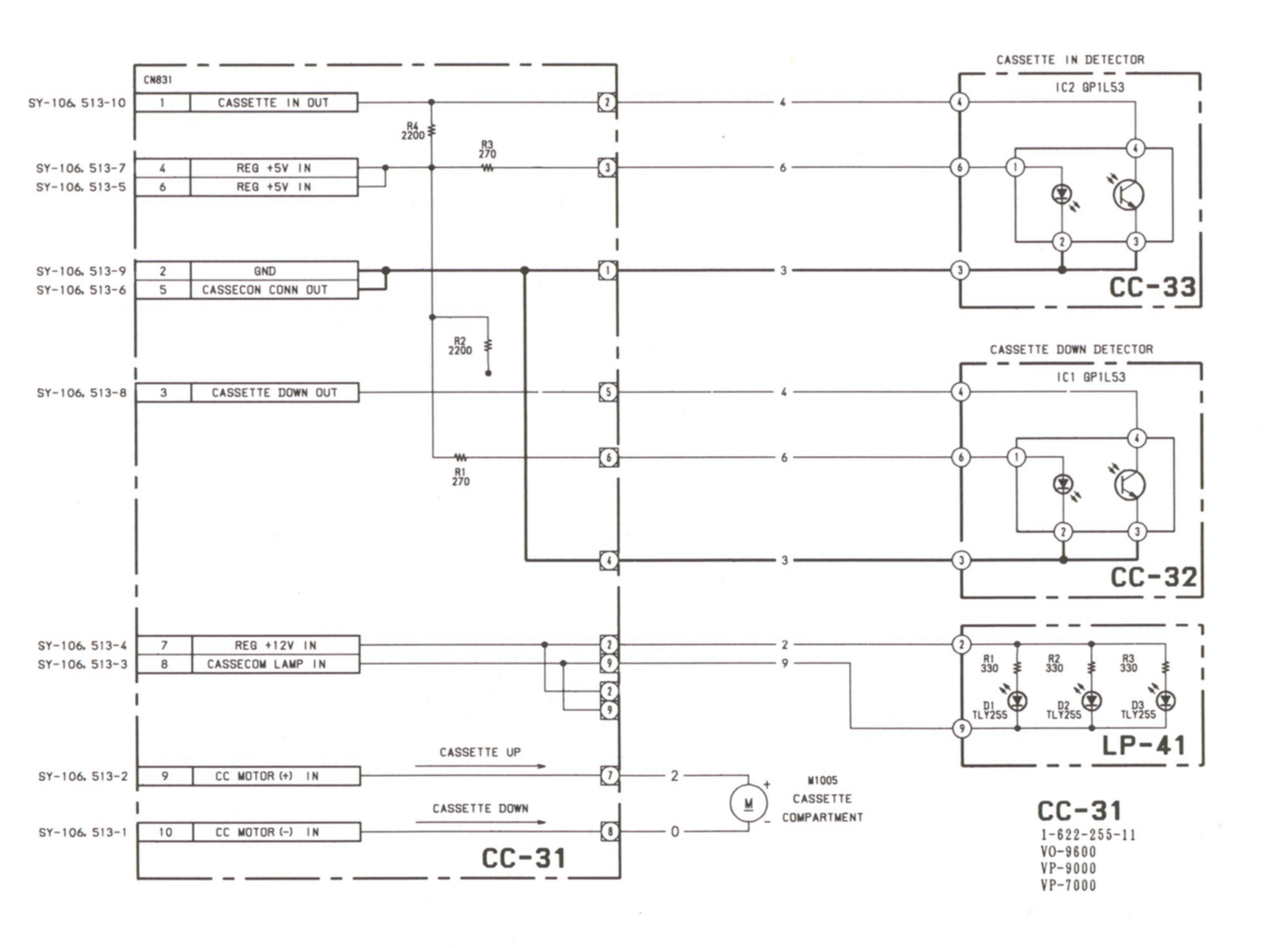
CC-32
-COMPONENT SIDE-
1-622-256-11
VO-9600
VP-9000
VP-7000



CC-33
-COMPONENT SIDE-
1-622-257-11
VO-9600
VP-9000
VP-7000

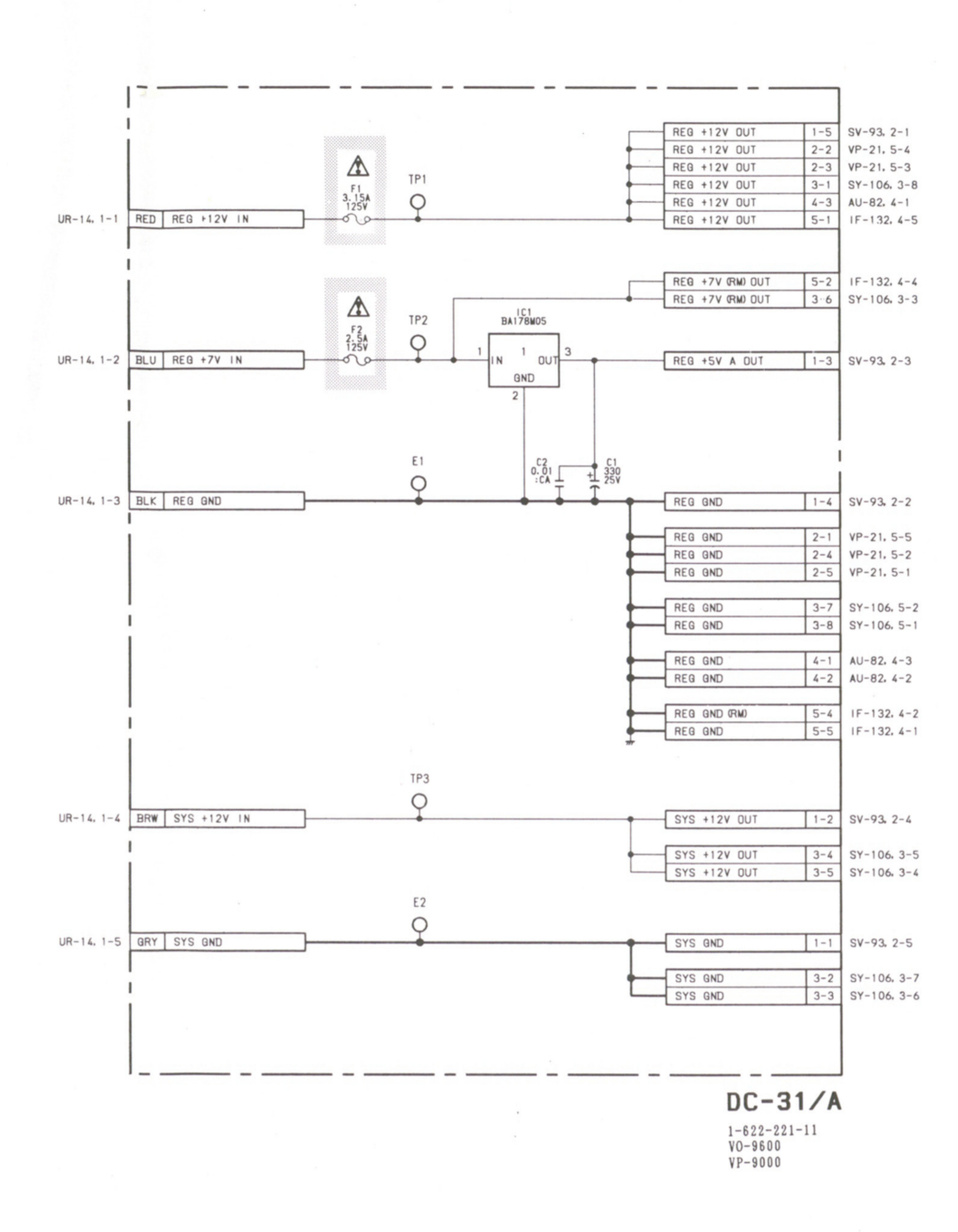


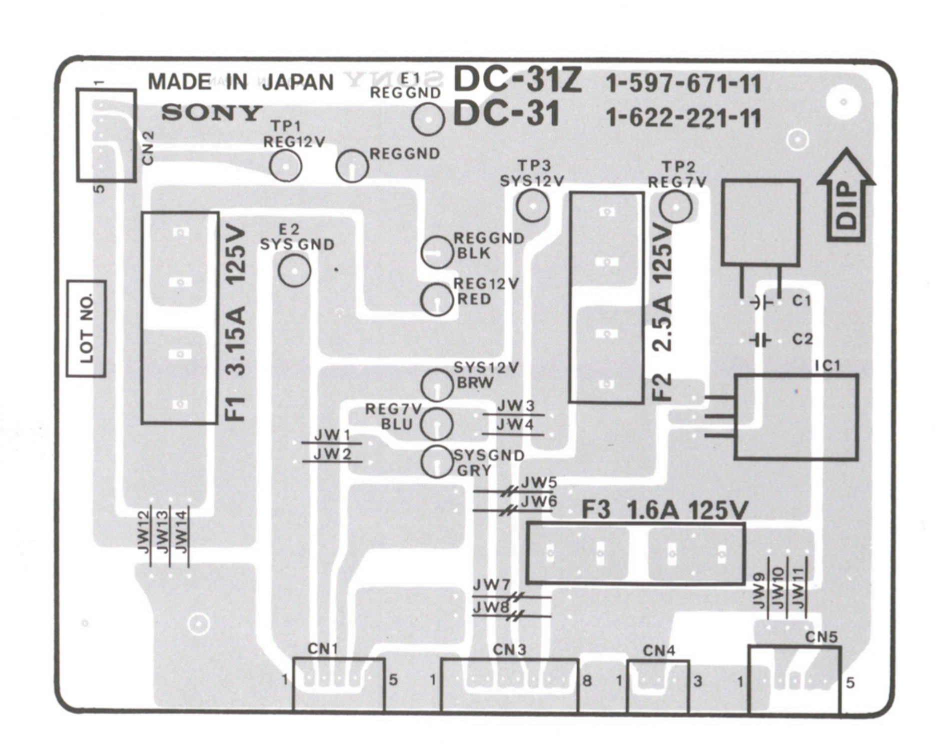
LP-41
-COMPONENT SIDE-
1-623-101-11
VO-9600



CC-31
1-622-255-11
VO-9600
VP-9000
VP-7000

DC-31:DC SUPPLY





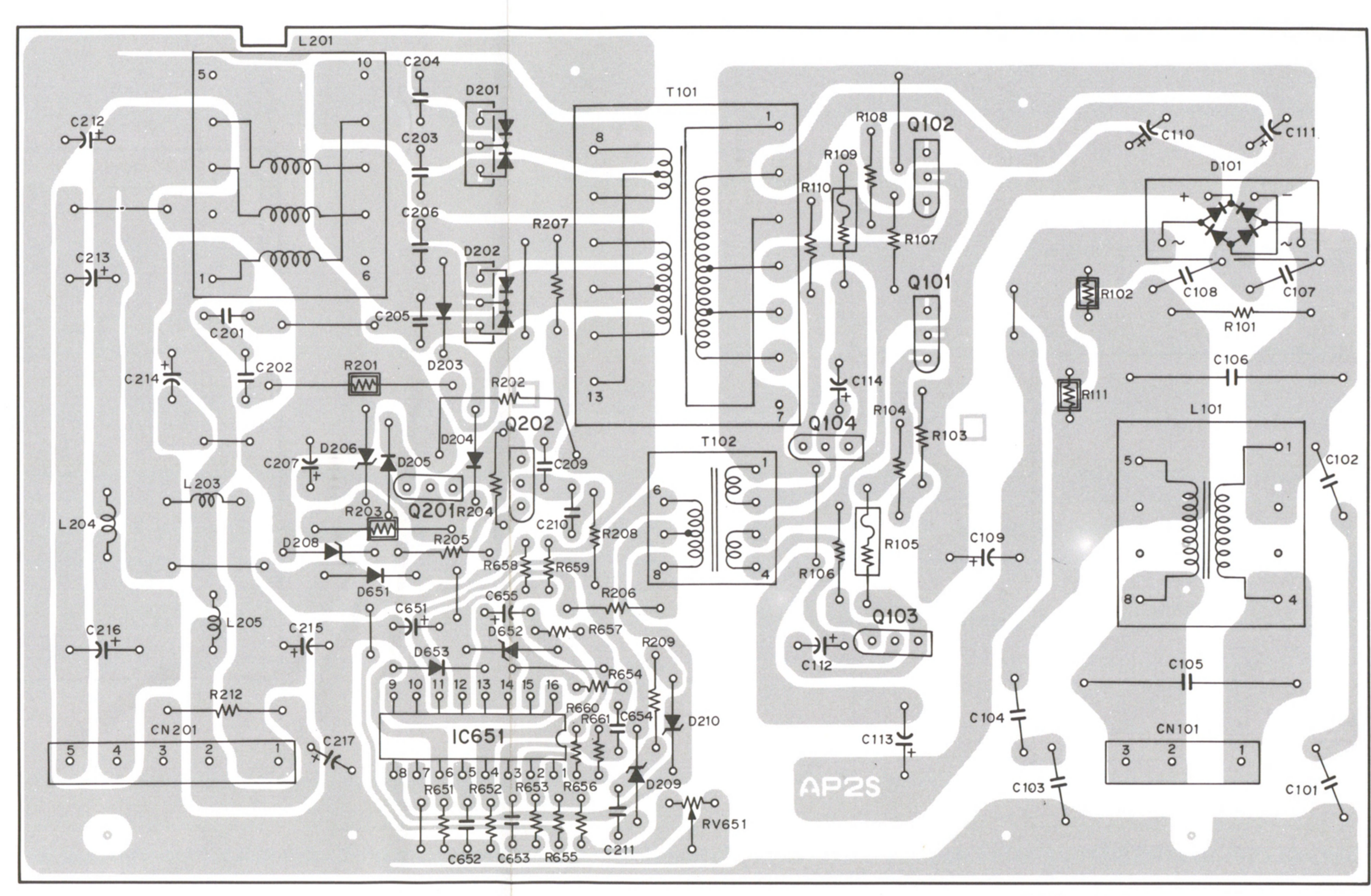
DC-31
-COMPONENT SIDE-
1-622-221-11
VO-9600
VP-9000

注意１：⚠印及び▒▒▒で囲まれた部品は安全性を維持するために重要な部品です。従って交換する時は必ず指定の部品を使って下さい。

NOTE;

The shaded and ⚠-marked components are critical to safety.
Replace only with same components as specified.

UR-14: SWITCHING REGULATOR



E C B

B C E

UR-14 -SOLDERING SIDE-

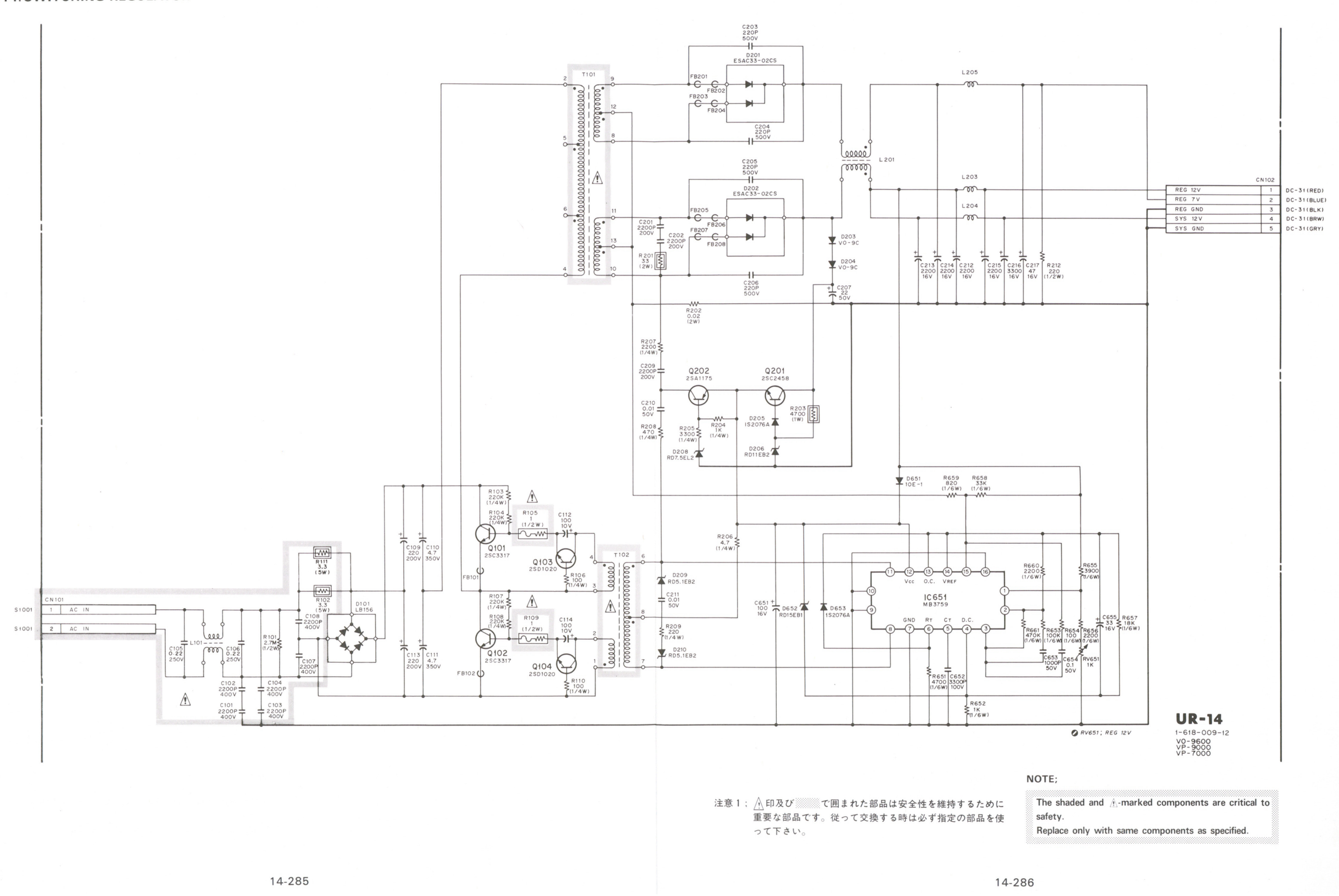
1-618-009-12

VO-9600

VP-9000

VP-7000

UR-14: SWITCHING REGULATOR

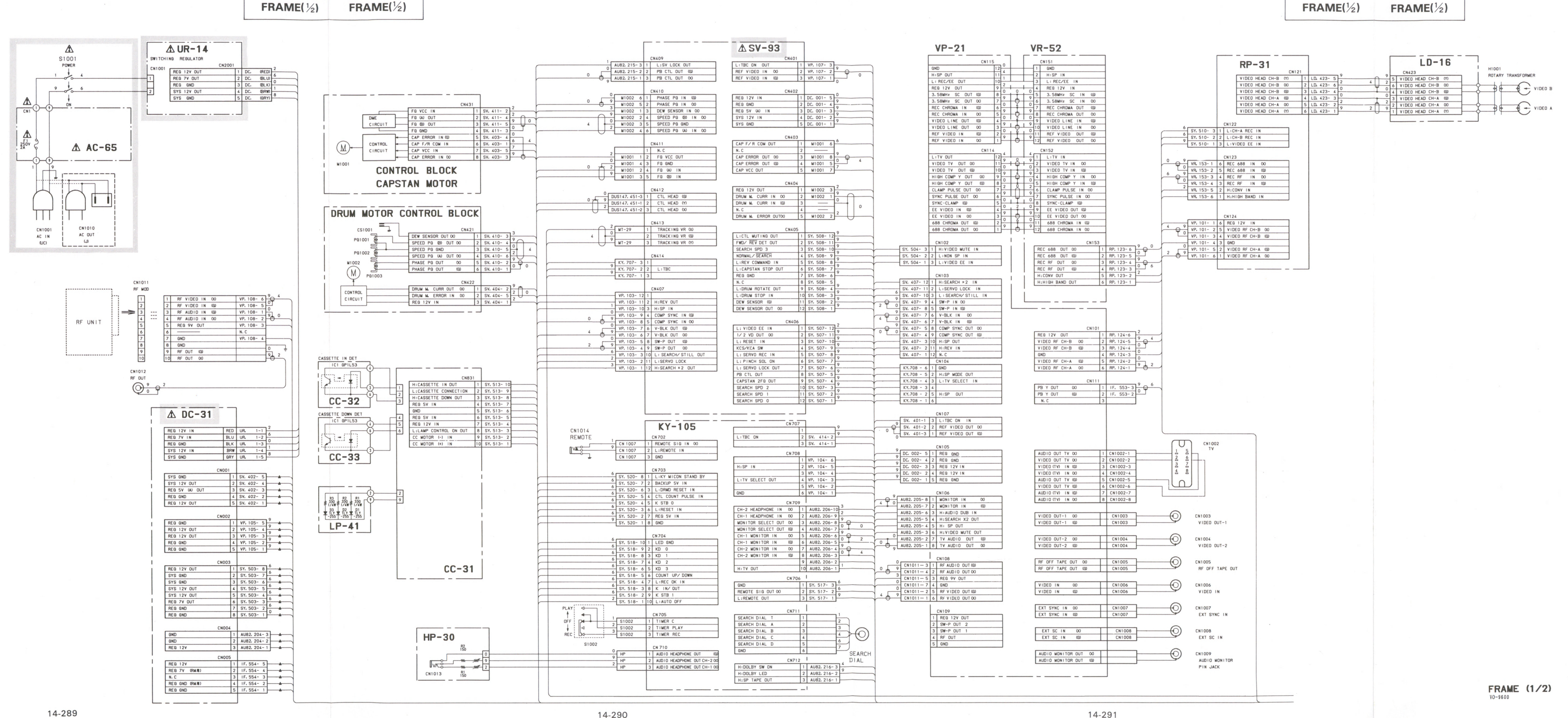


注意 1；⚠印及び░░░で囲まれた部品は安全性を維持するために重要な部品です。従って交換する時は必ず指定の部品を使って下さい。

NOTE;

The shaded and ⚠-marked components are critical to safety.
Replace only with same components as specified.

FRAME(1/2)

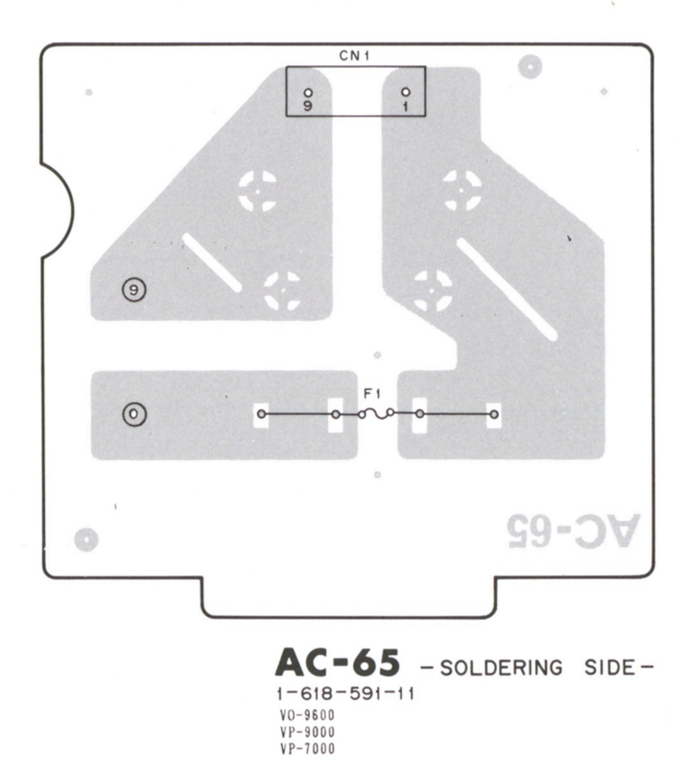


注意１：⚠印及び▒▒▒で囲まれた部品は安全性を維持するために重要な部品です。従って交換する時は必ず指定の部品を使って下さい。

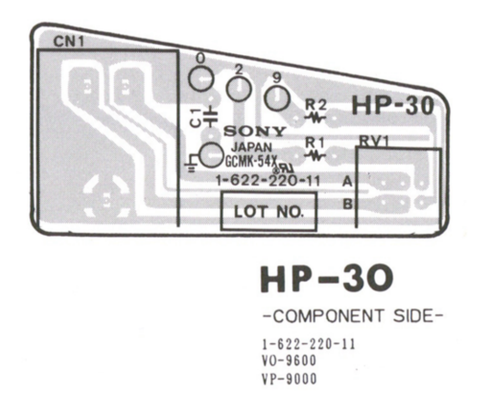
NOTE;

The shaded and ⚠-marked components are critical to safety.
Replace only with same components as specified.

AC-65: AC INPUT
HP-30: HEADPHONES

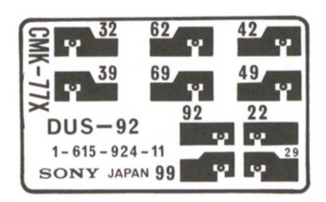


AC-65 -SOLDERING SIDE-
1-618-591-11
VO-9600
VP-9000
VP-7000

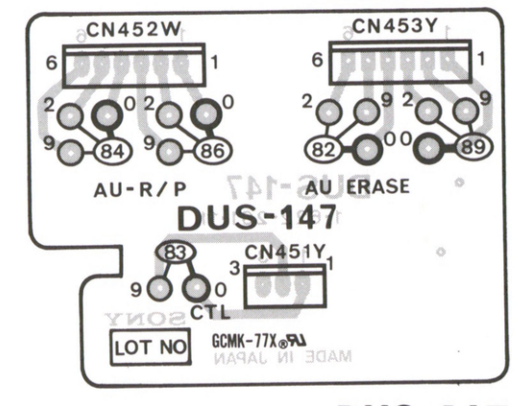


HP-30
-COMPONENT SIDE-
1-622-220-11
VO-9600
VP-9000

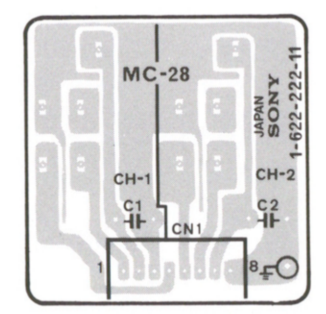
DUS-92: AUDIO CTL HEAD
DUS-147: AUDIO CTL HEAD
EC-28: CTL HEAD
LM-13: THREADING MOTOR
MC-28: MIC IN
MT-29: AUDIO LEVEL METER
PT-9: REEL MOTOR DRIVER



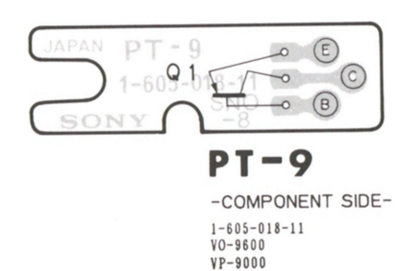
DUS-92
-SOLDERING SIDE-
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VO-9600
VP-9000



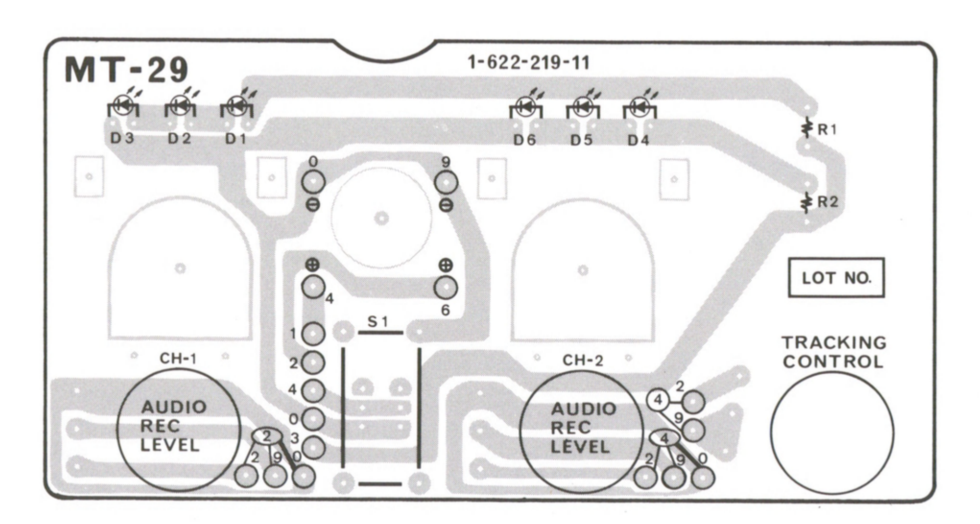
DUS-147
-COMPONENT SIDE-
1-622-261-11
VO-9600
VP-9000



MC-28
-COMPONENT SIDE-
1-622-222-11
VO-9600

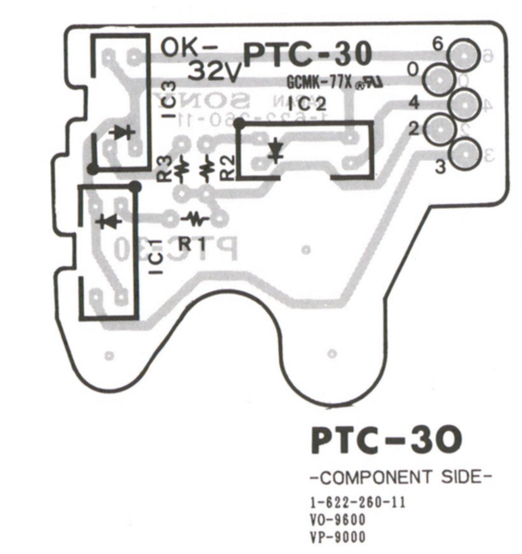


PT-9
-COMPONENT SIDE-
1-605-018-11
VO-9600
VP-9000

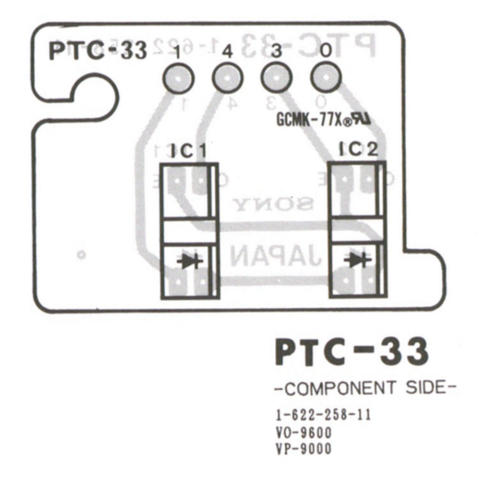


MT-29
-COMPONENT SIDE-
1-622-219-11
VO-9600

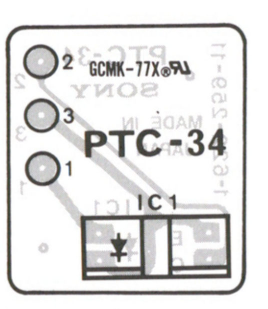
PTC-30: SP,MISS REC.KCA DETECTOR
PTC-33: FR STOP DETECTOR
PTC-34: UNTHREADEND DETECTOR



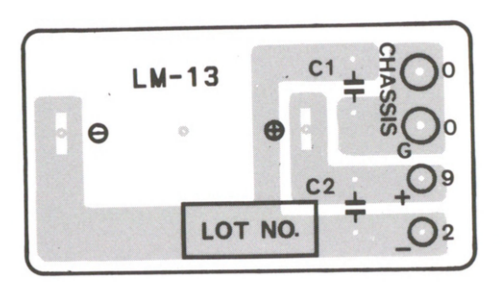
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-COMPONENT SIDE-
1-622-260-11
VO-9600
VP-9000



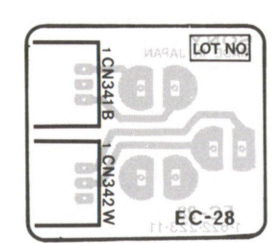
PTC-33
-COMPONENT SIDE-
1-622-258-11
VO-9600
VP-9000



PTC-34
-COMPONENT SIDE-
1-622-259-11
VO-9600
VP-9000

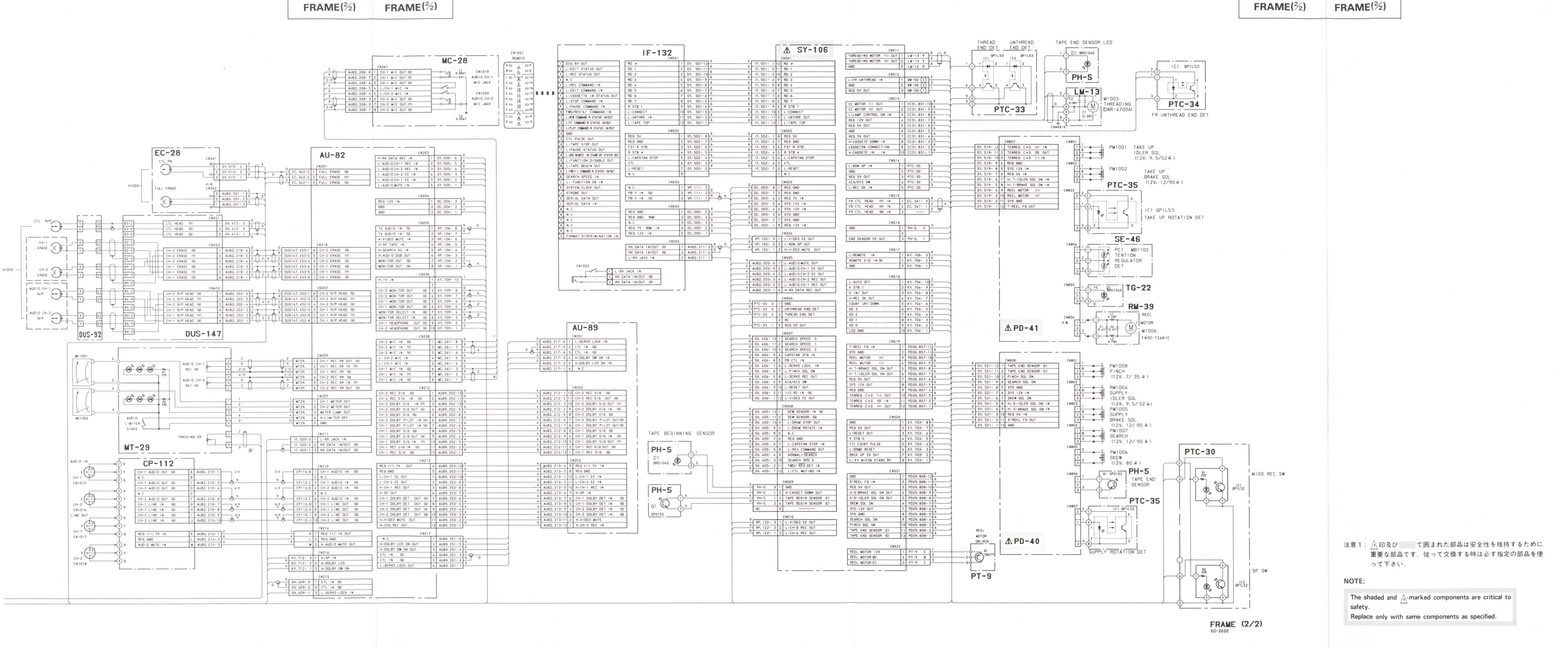


LM-13
-COMPONENT SIDE-
1-618-600-11
VO-9600



EC-28
-COMPONENT SIDE-
1-622-223-11
VO-9600
VP-9000

FRAME(2/2)



注意1：⚠印及び░░で囲まれた部品は安全性を維持するために重要な部品です。従って交換する時は必ず指定の部品を使って下さい。

NOTE;

The shaded and ⚠-marked components are critical to safety.
Replace only with same components as specified.

SECTION 15
SPARE PARTS AND FIXTURE

15-1. PARTS INFORMATION

(1)

> The shaded and ⚠ -marked components are critical to safety.
> Replace only with same components as specified.

(2) Replacement Parts supplied from the Sony Parts Center will sometimes have a different shape from the original parts. This is due to "improved parts and/or engineering changes" or "standardization of genuine parts".
This manual's exploded views and electrical spare parts list indicate the part numbers of "the standardized genuine parts at the present". Regarding engineering part changes by the engineering department, refer to Sony service bulletins and service manual supplements.

(3) The parts marked with "s" in the SP column of the exploded views and electrical spare parts lists are normally stocked for replacement purposes. The parts marked with "o" in the SP column are not normally required for routine service work. Orders for parts marked with "o" will be processed, but allow for additional delivery time.

(4) Items with no part number and/or no description are not stocked because they are seldom required for routine service.

(5) (T) after a spring description is shown on the exploded views in order to indicate the number of spring turns required for the use. (Example) Spring, tension (24T); This spring must be cut at its 24th turn for actual use.

15-2. EXPLODED VIEW

. Exploded vews are composed of the following blocks.

(1) Reel Chassis (1), Supply Side
- S Reel Table
- S Tension Regulator Arm
- Search Solenoid
- S Main Brake
- Reel Motor

(2) Reel Chassis (2), Take-up Side
- T Reel Table
- FF/REW Idler
- T Main brake
- T Tension Regulator Arm
- R Brake

(3) Reel Chassis (3), Back Side
- S Idler Solenoid
- T Idler Solenoid
- FF/REW Pulley
- S Brake Solenoid
- T Brake Solenoid

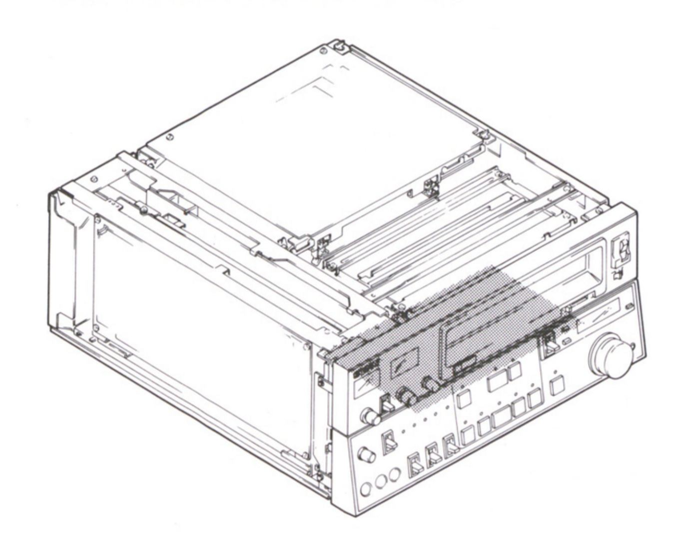
(4) Threading Ring Block
- Threading Ring
- Gear Box
- T Correction Guide
- Tape Beginning Sensor
- FR Detector

(5) Threading Arm
- T Drawer Arm
- S Drawer Arm
- S Drawer Roller
- Drawer Lever

(6) Drum and Capstan Blocks
- Head Drum
- Capstan Motor
- Audio/ CTL Head
- Tape Guides

(7) Erase Head Base
    Erase Head Base
    S Guard
(8) Pinch Lever and Pinch Solenoid Blocks
    Pinch Lever
    Pinch Roller Pre-set Cam
    Pinch Solenoid
(9) Cassette-up Compartment Block
(10) Function Control
    Function Control Board
(11) Front Panel Block
    Ornamental Front Panel
    Key Top
(12) Chassis Block (1), Left Side
    Printed Circuit Boards
(13) Chassis Block (2), Back Side
    Printed Circuit Boards
    Connector Panel for Video Signal
(14) Level Control Panel
    Meter Panel
    Headphone Block
(15) Switching Regulator
(16) Connector Panel for Audio Signal
(17) Chassis Block (3), Bottom
    Printed Circuit Boards
(18) Ornamental Panel Block
    U Case
    Bottom Plate

REEL CHASSIS (1), SUPPLY SIDE



supply tension regulator arm

SET SCREW3×3 (FLAT POINT)

W3mm dia

SET SCREW3×3 (FLAT POINT)

PHW3×5

supply reel table

PSW3×6

PSW3×8

E-3

BVTT3×6

PWH3×5

search solenoid

VTT3×6

B3×4

SET SCREW3×4 (DOUBLE POINT)

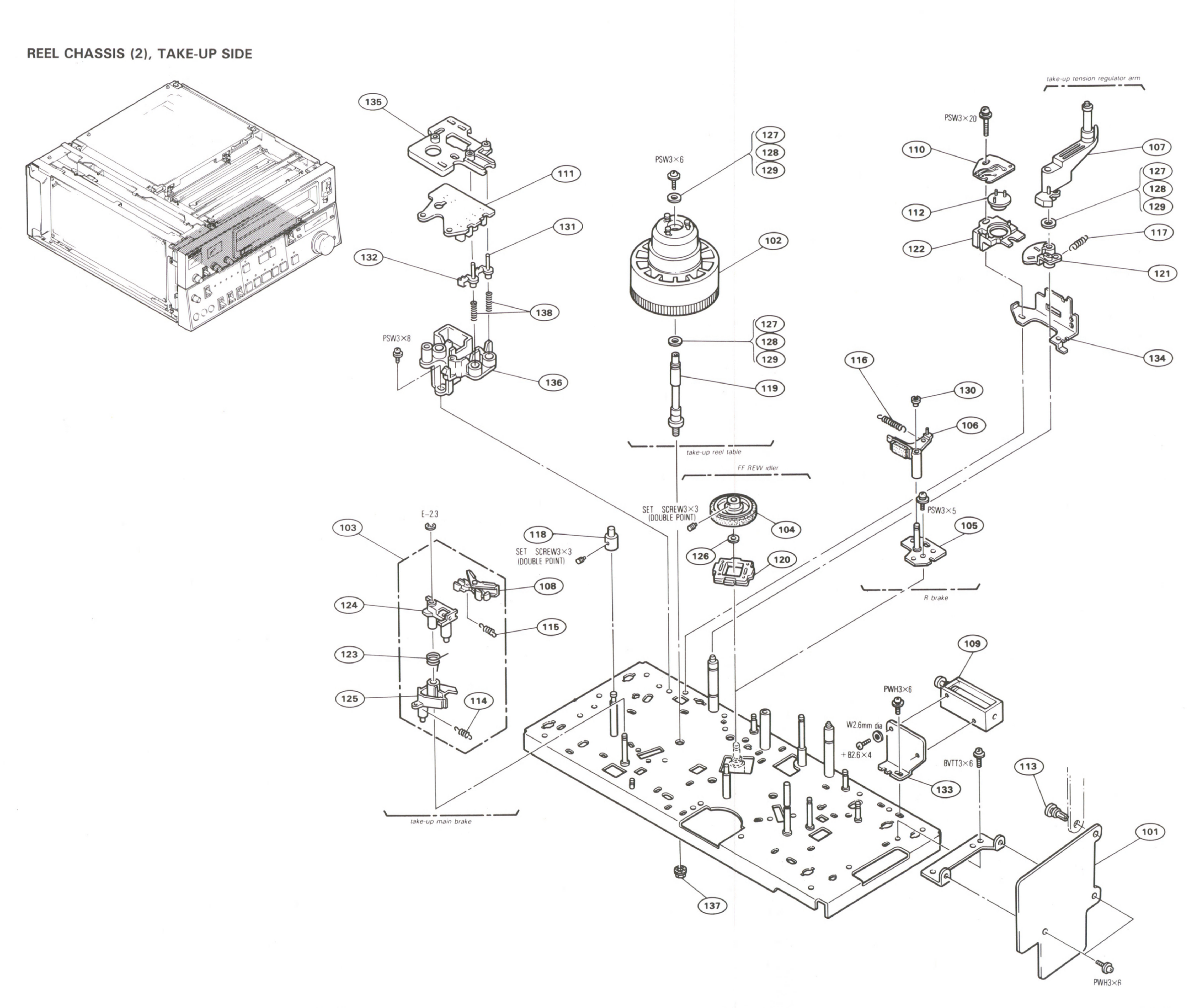
reel motor

E-2.3

supply main brake

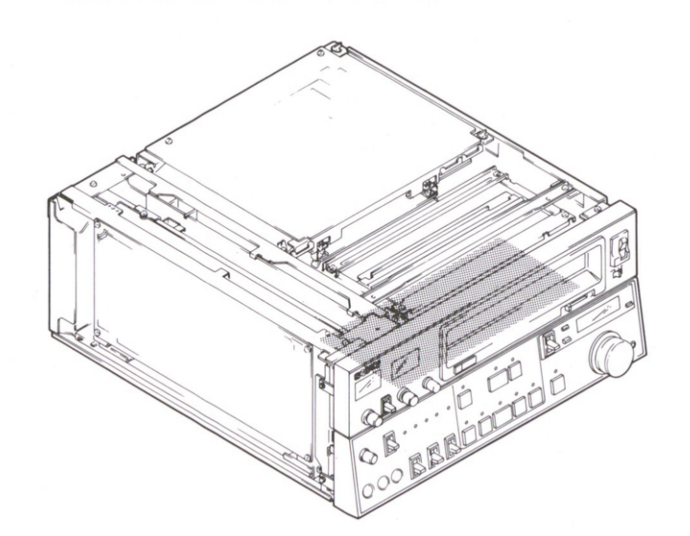
No.	Part No.	SP	Description
1	A-6739-016-C	s	TABLE ASSY, REEL
2	A-6741-038-B	s	BRAKE ASSY, MAIN
3	X-3668-706-0	o	BASE ASSY, S TENSION REGULATOR
4	X-3668-707-0	s	BAND ASSY, S TENSION REGULATOR
5	X-3668-708-0	s	ARM(A)ASSY, S TENSION REGULATOR
6	X-3668-709-0	s	SHAFT (1) ASSY, ROLLER
7	X-3668-717-0	o	BASE ASSY, SEARCH
8	X-3668-725-0	o	ARM (C) ASSY, SKEW
9	X-3668-727-0	s	GUIDE ASS'Y, TAPE
10	X-3668-749-0	s	HOLDER ASSY, LINING
11	1-454-417-31	s	SOLENOID, PLUNGER
12	1-618-873-11	o	PRINTED CIRCUIT BOARD, RM-39
13	3-534-238-XX	s	SPRING, TENSION (23T)
14	3-535-369-XX	s	SPRING, TENSION (12T)
15	3-548-124-00	s	SPRING, TENSION
16	3-668-787-02		ARM, S DETECTION
17	3-668-794-00	o	ARM (A), SKEW
18	3-668-795-00	s	SPRING
19	3-668-797-00	o	ARM, SKEW LOCK
20	3-668-804-00	s	LINK, DETECTION TENSION
21	3-668-808-00	s	ARM, FWD, SEARCH
22	3-668-827-00	o	SHAFT (S), REEL
23	3-668-835-00	s	ARM (B), SKEW
24	3-668-874-00	s	FLANGE (1), LOWER
25	3-668-936-00	s	ARM (B), S TENSION REGULATOR
26	3-668-937-00	s	CLAW, SKEW LOCK
27	3-668-939-00	o	ARM, BAND LOCK
28	3-668-966-00	s	SPRING
29	3-668-970-00	o	ARM, BRAKE
30	3-668-971-00	o	ARM, BRAKE RELEASE
31	3-672-743-01	o	BRACKET, MOTOR
32	3-672-744-01	s	PULLEY (R), MOTOR
33	3-701-438-01	s	WASHER, POLY 2.5MM DIA., 0.25T
34	3-701-444-01	s	WASHER, POLY 6MM DIA., 0.13T
35	3-701-444-11	s	WASHER, POLY 6MM DIA., 0.25T
36	3-701-444-21	s	WASHER, POLY 6MM DIA., 0.50T
37	3-703-074-00	s	CAP 3, SHAFT
38	3-718-337-01	s	LEVER, SKEW
39	4-304-749-00	o	NUT, FLANGE
40	8-835-178-01	s	MOTOR, DC FN30-T26N1E

REEL CHASSIS (2), TAKE-UP SIDE



No.	Part No.	SP	Description
101	A-6725-569-A	o	MOUNTED CIRCUIT BOARD, PD-40
102	A-6739-016-C	s	TABLE ASS'Y, REEL
103	A-6741-038-B	s	BRAKE ASS'Y, MAIN
104	X-3646-026-0	s	IDLER ASS'Y, FF
105	X-3668-705-0	o	BASE ASS'Y, R BRAKE
106	X-3668-737-0	s	BRAKE ASS'Y, R
107	X-3668-738-0	s	ARM ASS'Y, T TENSION REGULATOR
108	X-3668-749-0	s	HOLDER ASS'Y, LINING
109	1-454-446-11	s	SOLENOID, PLUNGER
110	1-618-599-11	o	PRINTED CIRCUIT BOARD, SE-46
111	1-622-260-11	o	PRINTED CIRCUIT BOARD, PTC-30
112	1-806-232-21	s	DETECTOR MB-1102/S.N
113	2-382-416-01	o	SUPPORT, PC
114	3-535-369-XX	s	SPRING, TENSION (12T)
115	3-548-124-00	s	SPRING, TENSION
116	3-549-861-00	s	SPRING, TENSION
117	3-642-427-00	s	SPRING, TENSION
118	3-668-031-00	o	RETAINER (UPPER), CASSETTE
119	3-668-766-00	o	SHAFT (T), REEL
120	3-668-780-00	o	CUSHION, IDLER
121	3-668-788-00	s	ART, T DETECTION
122	3-668-789-00	o	HOLDER, BRIDGE, PHOTO
123	3-668-966-00	s	SPRING
124	3-668-970-00	o	ARM, BRAKE
125	3-668-971-00	o	ARM, BRAKE RELEASE
126	3-701-441-21	s	WASHER, POLY 4MM DIA., 0.50T
127	3-701-444-01	s	WASHER, POLY 6MM DIA., 0.13T
128	3-701-444-11	s	WASHER, POLY 6MM DIA., 0.25T
129	3-701-444-21	s	WASHER, POLY 6MM DIA., 0.50T
130	3-703-074-00	s	CAP 3, SHAFT
131	3-718-307-01	s	ACTUATOR, TRC
132	3-718-307-11	s	ACTUATOR, TRC
133	3-718-308-01	o	BRACKET, SK SOLENOID
134	3-718-326-01	o	STOPPER (SP)
135	3-718-342-01	o	TRC-BOX (UPPER)
136	3-718-343-01	o	TRC-BOX (LOWER)
137	4-304-749-00	o	NUT, FLANGE
138	4-858-779-00	s	SPRING, COMPRESSION

REEL CHASSIS (3), BACK SIDE



supply idler solenoid

FF/REW idler pulley

take-up idler solenoid

supply brake solenoid

take-up brake solenoid

E-3

PSW3×10

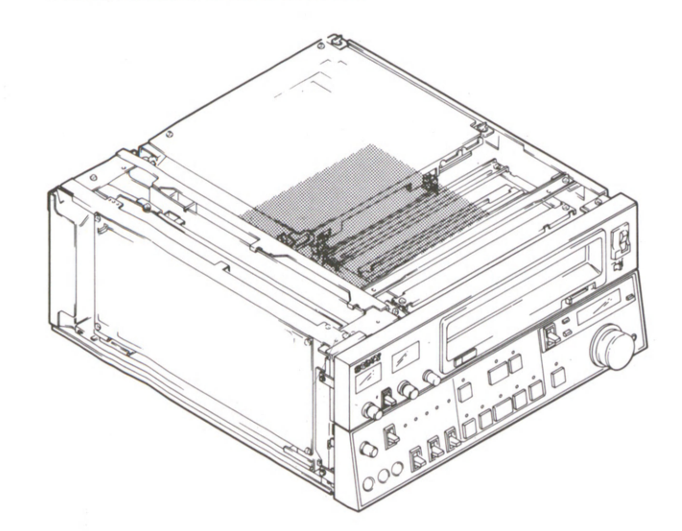
PSW3×6

PWH3×5

BVTT3×6

No.	Part No.	SP	Description
201	A-6725-570-A	o	MOUNTED CIRCUIT BOARD, PD-41
202	A-6740-069-B	s	PULLEY BLOCK, ASS'Y, IDLER
203	X-3668-703-0	o	LEVER ASS'Y, S
204	X-3668-704-0	o	LEVER ASS'Y, T
205	1-454-415-11	s	SOLENOID, PLUNGER
206	1-454-417-31	s	SOLENOID, PLUNGER
207	1-618-597-11	o	PRINTED CIRCUIT BOARD, TG-22
208	1-622-218-11	o	PRINTED CIRCUIT BOARD, PTC-35
209	3-437-452-00	s	SPRING, TENSION
210	3-650-512-00	s	COLLAR, (A)
211	3-651-572-00	s	SPRING, COMPRESSION
212	3-668-048-11	o	SPACER (DIA. 4x20)
213	3-668-772-00	s	SHAFT, IDLER PULLEY
214	3-668-781-00	o	JOINT, T
215	3-668-782-00	o	JOINT, S
216	3-668-785-00	s	BELT (67x2)
217	3-668-826-00	s	RETAINER, PIN, SOLENOID
218	3-668-828-02	o	BRACKET, PS
219	3-672-752-01	o	HOLDER, LED
220	3-703-074-00	s	CAP 3, SHAFT

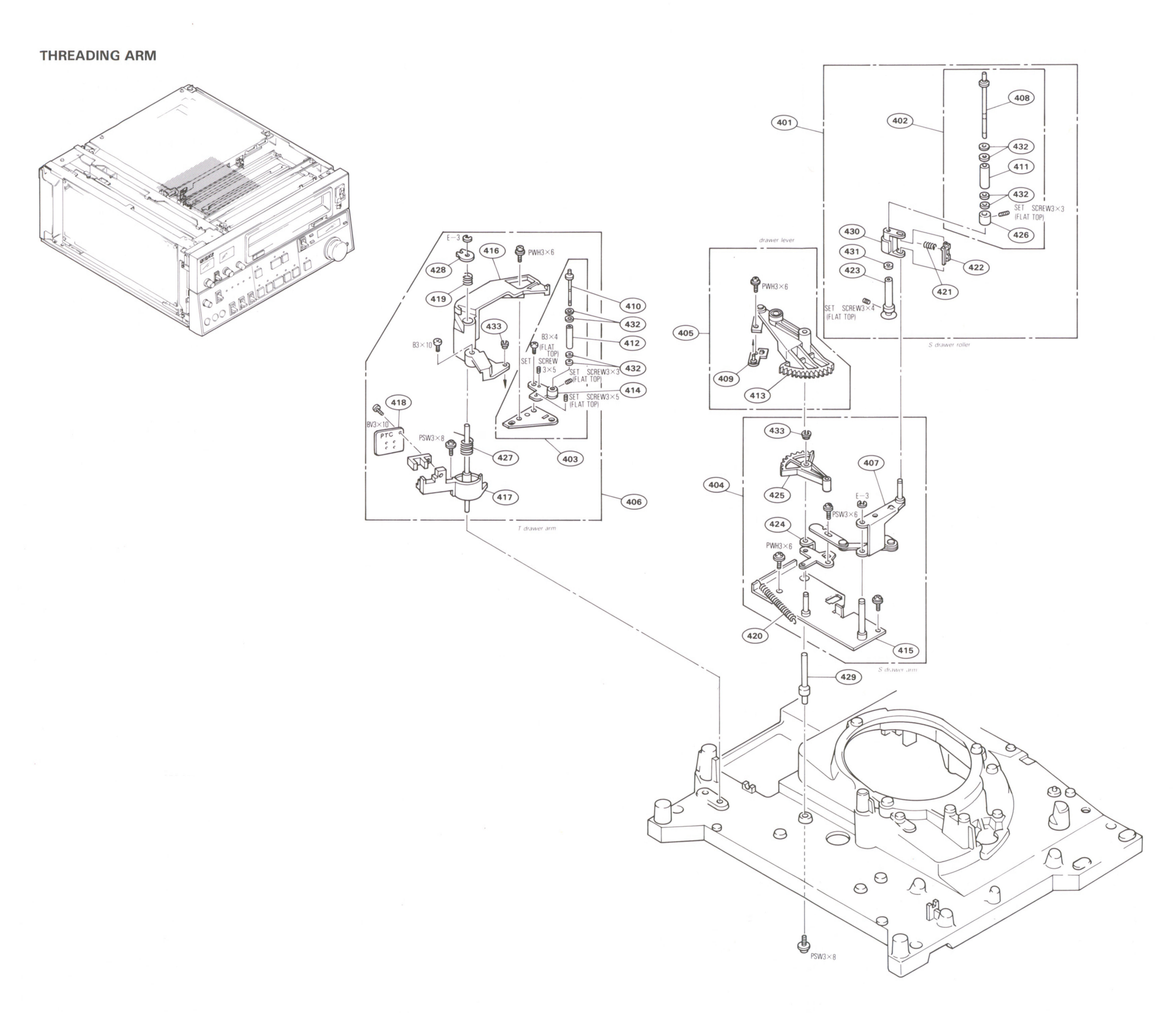
THREADING RING BLOCK



No.	Part No.	SP	Description
301	A-6750-219-A	s	BOX BLOCK ASS'Y, GEAR
302	A-6750-220-A	s	RING BLOCK ASS'Y, MAIN
303	A-6750-226-A	s	PINCH ROLLER BLOCK ASS'Y
304	X-3668-719-0	o	ROLLER ASS'Y, RING
305	X-3668-720-0	o	BASE ASS'Y, ROLLER, PRECEDING
306	X-3668-721-0	o	CHASSIS ASS'Y, GUIDE
307	X-3668-722-0	s	LOCKER ASS'Y, FR
308	X-3668-723-2	o	ARM ASS'Y, GUIDE, T CORRECTION
309	X-3668-724-3	s	SHAFT ASS'Y, ROLLER, PRECEDING
310	X-3668-733-0	s	SHAFT ASS'Y, SR GUIDE
311	X-3668-743-0	s	PULLEY ASS'Y, WORM
312	X-3672-704-1	o	BRACKET ASS'Y, MOTOR
313	X-3672-710-1	o	RING (UPPER) ASS'Y, SUB
314	X-3672-711-1	o	RING (LOWER) ASS'Y, SUB
315	X-3672-718-2	s	SHAFT ASS'Y, GUIDE
316	X-3718-303-1	s	GUIDE ASS'Y, (T), TAPE
317	1-603-737-00	o	PRINTED CIRCUIT BOARD, PH-5
318	1-618-600-11	o	PRINTED CIRCUIT BOARD, LM-13
319	1-622-258-11	o	PRINTED CIRCUIT BOARD, PTC-33
320	3-143-067-00	s	SPRING, TENSION
321	3-437-289-00	s	SPRING, TENSION
322	3-634-196-00	s	SPRING
323	3-668-743-00	o	NUT, PLATE, ROLLER, PRECEDING
324	3-668-745-00	s	SPRING
325	3-668-749-02	o	ARM (A), GUIDE, T CORRECTION
326	3-668-753-00	o	PLATE, ADJUSTMENT, FR LOCKER
327	3-668-754-00	o	SHAFT, GUIDE ARM, T CORRECTION
328	3-668-755-00	o	PLATE, STOPPER SR
329	3-668-900-00	o	BRACKET, T SENSOR
330	3-668-901-00	s	HOLDER, T PHOTO
331	3-668-919-00	s	ROLLER, SR GUIDE
332	3-668-947-00	s	PINION, L
333	3-668-948-00	o	SHAFT WORM
334	3-668-963-00	s	ROLLER, RING
335	3-669-926-01	s	WASHER (3), THRUST
336	3-669-960-00	o	RETAINER, SHAFT
337	3-672-736-01	s	PULLEY, LM
338	3-672-737-01	s	BELT SQUARE
339	3-672-738-01	o	PLATE GROUND SLED
340	3-672-739-01	o	BELT, LM SHIELD
341	3-672-790-01	o	BRAKET, FR DETECTION
342	3-701-437-21	s	WASHER, POLY 2MM DIA., 0.50T
343	3-701-438-11	s	WASHER, POLY 2.5MM DIA., 0.25T
344	3-701-439-21	s	WASHER, POLY 3MM DIA., 0.50T
345	3-701-505-00	s	SET SCREW, DUBLE POINT 3x3
346	3-703-074-00	s	CAP 3, SHAFT
347	3-703-075-00	s	CAP 2, SHAFT
348	1-541-376-11	s	MOTOR, DC (DNR-4700A)

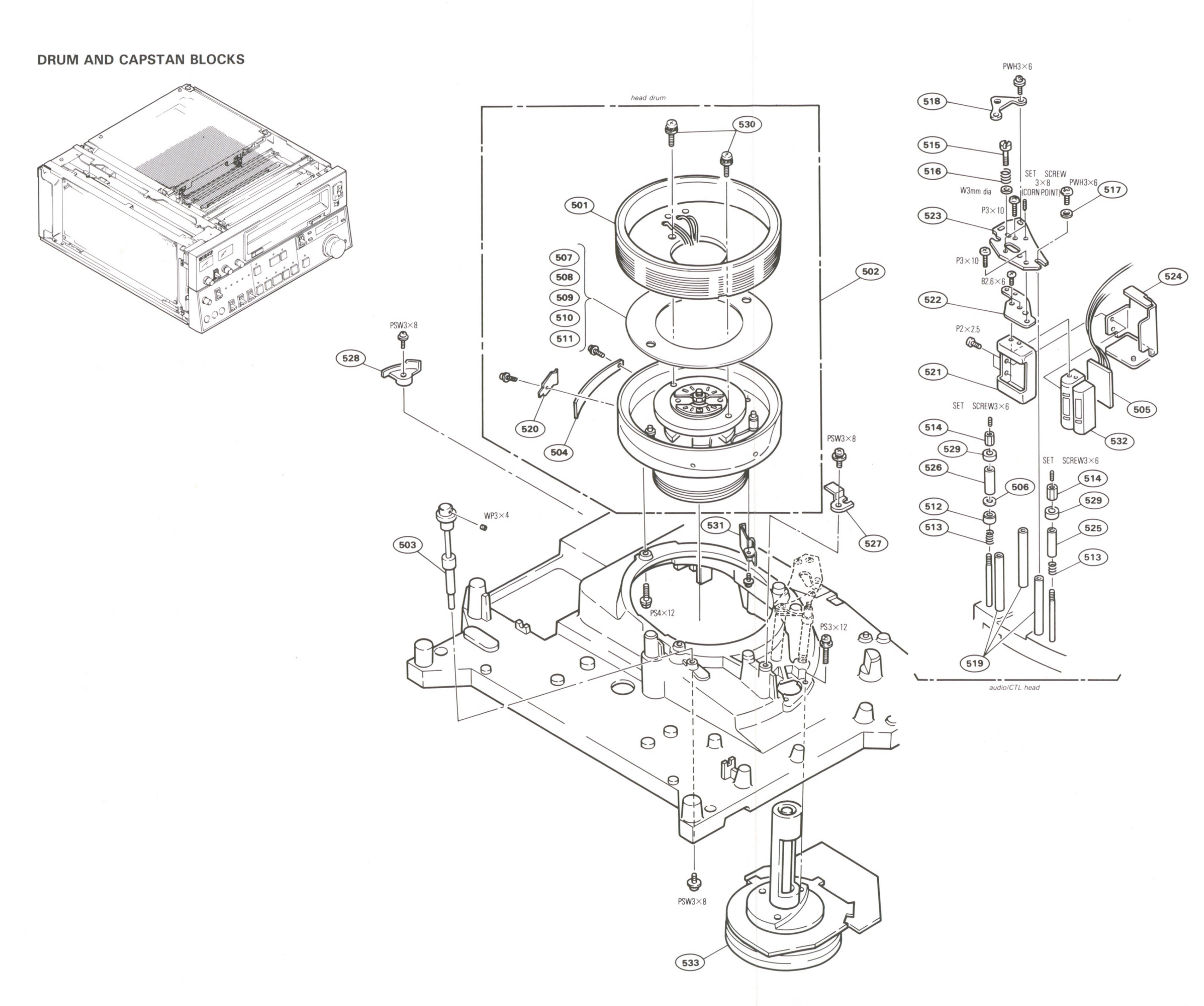
 THREADING ARM

THREADING ARM



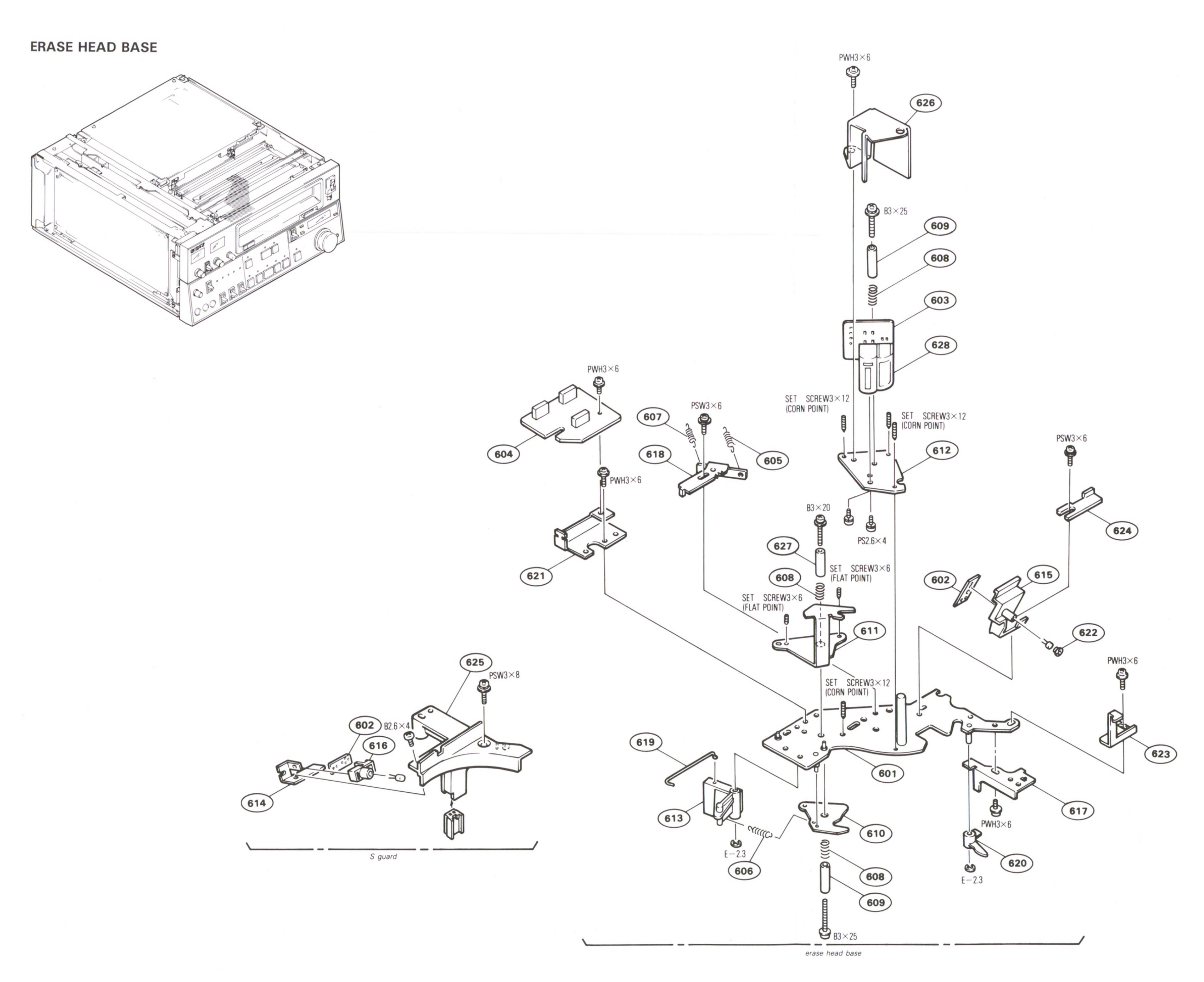
No.	Part No.	SP	Description
401	A-6746-021-C	s	ROLLER BLOCK ASS'Y, S DRAWER
402	A-6746-034-A	s	ROLLER BLOCK ASS'Y, (2) DRAWER
403	A-6746-045-A	s	ROLLER BLOCK ASS'Y, T GUIDE
404	A-6750-201-A	o	ARM BLOCK ASS'Y, S DRAWER
405	A-6750-202-A	o	LEVER BLOCK ASS'Y, DRAWER
406	A-6750-218-A	o	ARM BLOCK ASS'Y, T DRAWER
407	X-3668-711-0	o	ARM ASS'Y, S DRAWER
408	X-3668-712-3	s	SHAFT (2) ASS'Y, ROLLER
409	X-3668-713-0	o	LINK (B) ASS'Y, DRIVING
410	X-3668-716-0	s	SHAFT (3) ASS'Y, ROLLER
411	X-3668-718-0	s	GUIDE ASS'Y, TAPE
412	X-3668-727-0	o	GUIDE ASS'Y, TAPE
413	X-3668-729-0	s	LEVER ASS'Y, DRAWER
414	X-3672-705-1	o	PLATE ASS'Y, GUIDE, T
415	X-3672-706-1	o	BASE ASS'Y, S DRAWER ARM
416	X-3672-708-1	o	ARM ASS'Y, T DRAWER
417	X-3718-305-1	o	RITAINER ASS'Y, ARM, T DRAWER
418	1-622-259-11	o	PRINTED CIRCUIT BOARD, PTC-34
419	3-534-854-00	s	SPRING, COMPRESSION
420	3-540-506-00	s	SPRING, TENSION
421	3-644-718-00	s	SPRING, COMPRESSION
422	3-668-718-00	s	RETAINER, SPRING, S DRAWER
423	3-668-719-00	s	HOLDER (L), S GUIDE
424	3-668-720-00	o	LIMITER, S DRAWER
425	3-668-721-00	s	ARM, S DRIVING
426	3-668-724-00	o	FLANGE (2), LOWER
427	3-668-734-00	o	SPRING
428	3-668-735-00	s	RETAINER, SPRING
429	3-668-760-00	s	SHAFT, DRAWER LEVER
430	3-668-833-00	s	HOLDER (M), GUIDE, S
431	3-669-946-00	s	RING (P4), O
432	3-701-438-01	s	WASHER, POLY 2.5MM DIA., 0.13T
433	3-703-074-00	s	CAP 3, SHAFT

DRUM AND CAPSTAN BLOCKS



No.	Part No.	SP	Description
501	A-6709-602-A	s	UPPER DRUM ASS'Y, DUR-41-R
502	A-6709-605-A	s	HEAD DRUM ASS'Y, DUH-41A-R
503	A-6746-052-A	s	ROLLER ASS'Y, GUIDE, TAPE
504	1-586-633-00	s	DETECTOR, DEW
505	1-615-924-11	o	PRINTED CIRCUIT BOARD, DUS-92
506	3-534-329-11	s	WASHER, TAPE GUIDE
507	3-630-029-01	s	SPACER, FLANGE (0.01T)
508	3-630-029-11	s	SPACER, FLANGE (0.02T)
509	3-630-029-21	s	SPACER, FLANGE (0.05T)
510	3-630-029-31	s	SPACER, FLANGE (0.1T)
511	3-630-029-41	s	SPACER, FLANGE (0.03T)
512	3-641-612-00	s	GUIDE, TAPE
513	3-641-615-00	s	SPRING, COMPRESSION
514	3-641-616-00	s	NUT, TAPE GUIDE ADJUSTMENT
515	3-641-621-00	s	SCREW, HEAD ADJUSTMENT
516	3-641-622-00	s	SPRING, COMPRESSION
517	3-645-076-00	o	WASHER, M-REEL S
518	3-647-815-00	o	PLATE, ADJUSTMENT, CTL HEAD
519	3-647-816-00	o	POLE, SUPPORT, CTL BRACKET
520	3-655-631-00	o	TERMINAL, GRUND
521	3-655-675-02	o	CASE (F), AU
522	3-655-676-01	o	BRACKET (A), CTL HEAD
523	3-655-677-01	o	BRACKET (B), CTL HEAD
524	3-655-678-03	o	CASE (B), AU
525	3-672-730-01	s	TG-3
526	3-672-731-01	s	TG-4
527	3-672-762-01	o	PIN, DRUM
528	3-672-763-01	o	CAM, P OFFSET PREVENTION
529	3-688-807-01	s	FRANGE, TAPE GUIDE
530	7-672-163-01	s	SCREW
531	3-710-826-01	o	SHIELD, CN
532	8-825-578-21	s	ACE HEAD
533	8-835-258-01	s	MOTOR, DC BHF-1915B

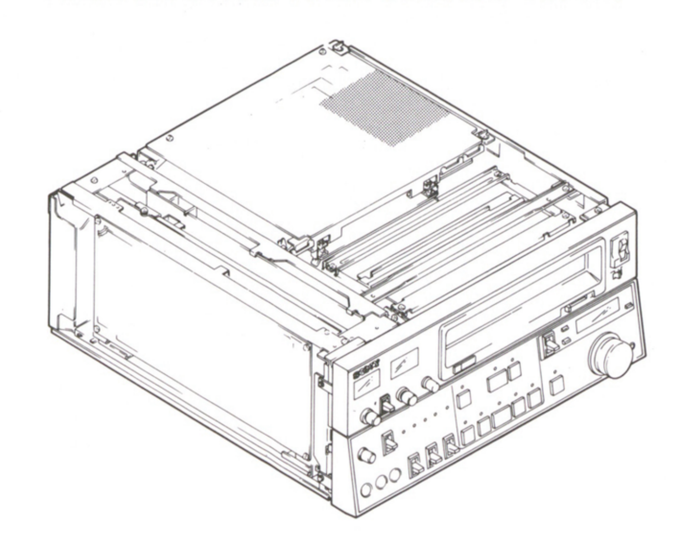
ERASE HEAD BASE



No.	Part No.	SP	Description
601	X-3668-728-0	o	DECK ASS'Y, E HEAD
602	1-603-737-00	o	PRINTED CIRCUIT BOARD, PH-5
603	1-622-223-11	o	PRINTED CIRCUIT BOARD, EC-28
604	1-622-261-11	o	PRINTED CIRCUIT BOARD, DUS-147
605	3-534-238-XX	s	SPRING, TENSION (23T)
606	3-535-531-00	s	SPRING, TENSION
607	3-538-102-00	s	SPRING, TENSION
608	3-637-335-00	s	SPRING, COMPRESSION (C)
609	3-657-086-00	o	SPACER (3x20)
610	3-668-705-00	s	HOLDER (LOWER), S
611	3-668-706-02	s	HOLDER (UPPER), S
612	3-668-707-00	o	TABLE, HEAD, E
613	3-668-708-00	o	ARM, DRIVING, CORRECTION GUIDE
614	3-668-809-02	o	BRACKET, HOLDER
615	3-668-832-02	o	HOLDER (S)
616	3-668-837-00	o	HOLDER, LED
617	3-668-859-00	o	STOPPER, RING
618	3-668-860-00	o	HOOK, SPRING, TENSION REGULATOR
619	3-668-884-03	o	JOINT, RESERVE PRESS
620	3-668-894-00	o	LEVER, RELEASE
621	3-668-962-00	o	BRACKET, AH PC BOARD
622	3-669-920-00	o	COVER, S PHOTO
623	3-669-963-00	o	SPRING, LEAF, GROUND
624	3-669-964-00	o	PLATE, GROUND
625	3-672-764-03	s	GUARD, S
626	3-718-363-01	o	COVER, E HEAD
627	4-855-006-11	s	SPACER (3x14)
628	8-825-513-20	s	HEAD, CTL ERASE (EPP170-58)

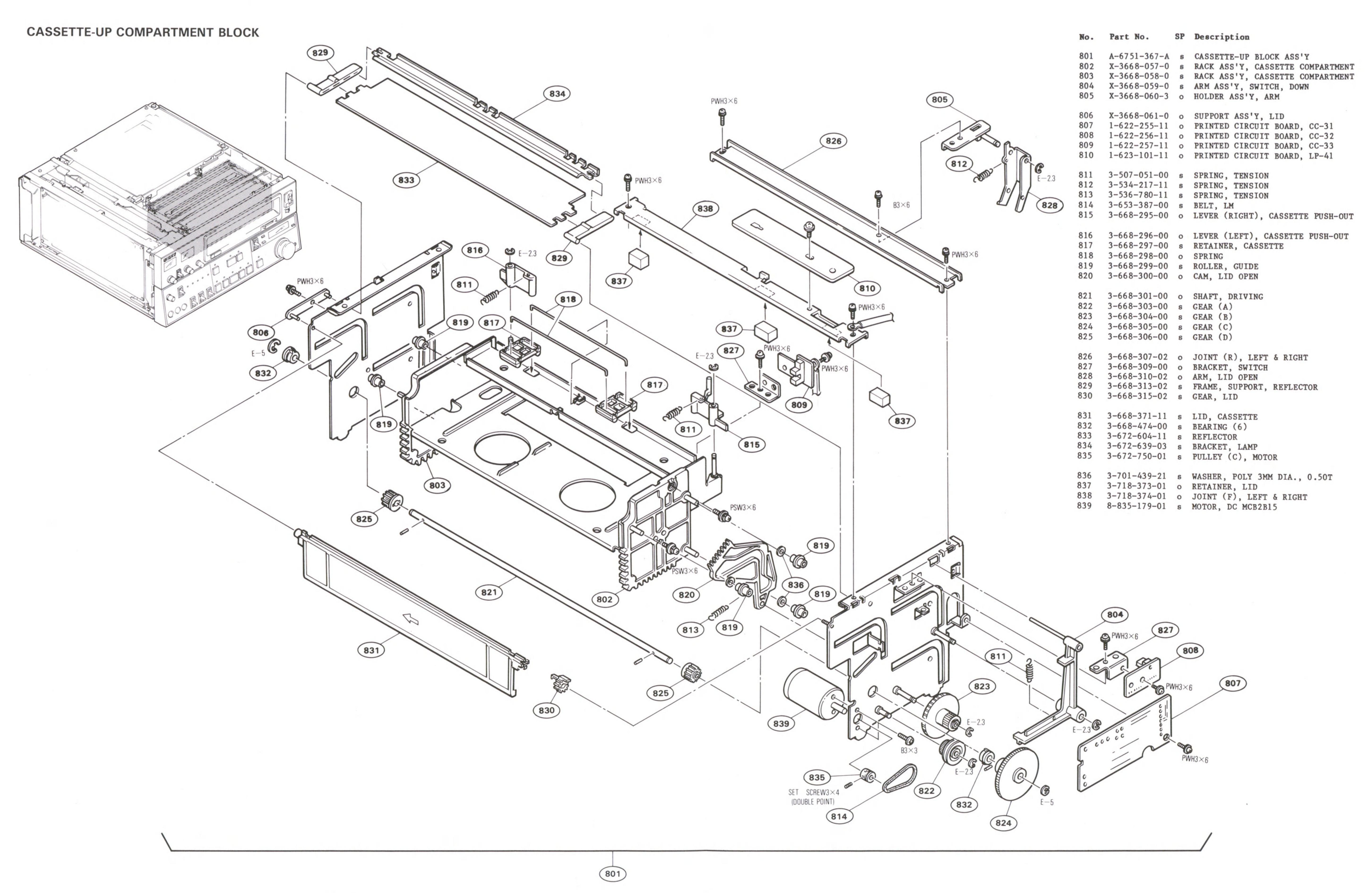
PINCH LEVER AND PINCH SOLENOID BLOCKS

PINCH LEVER AND PINCH SOLENOID BLOCKS



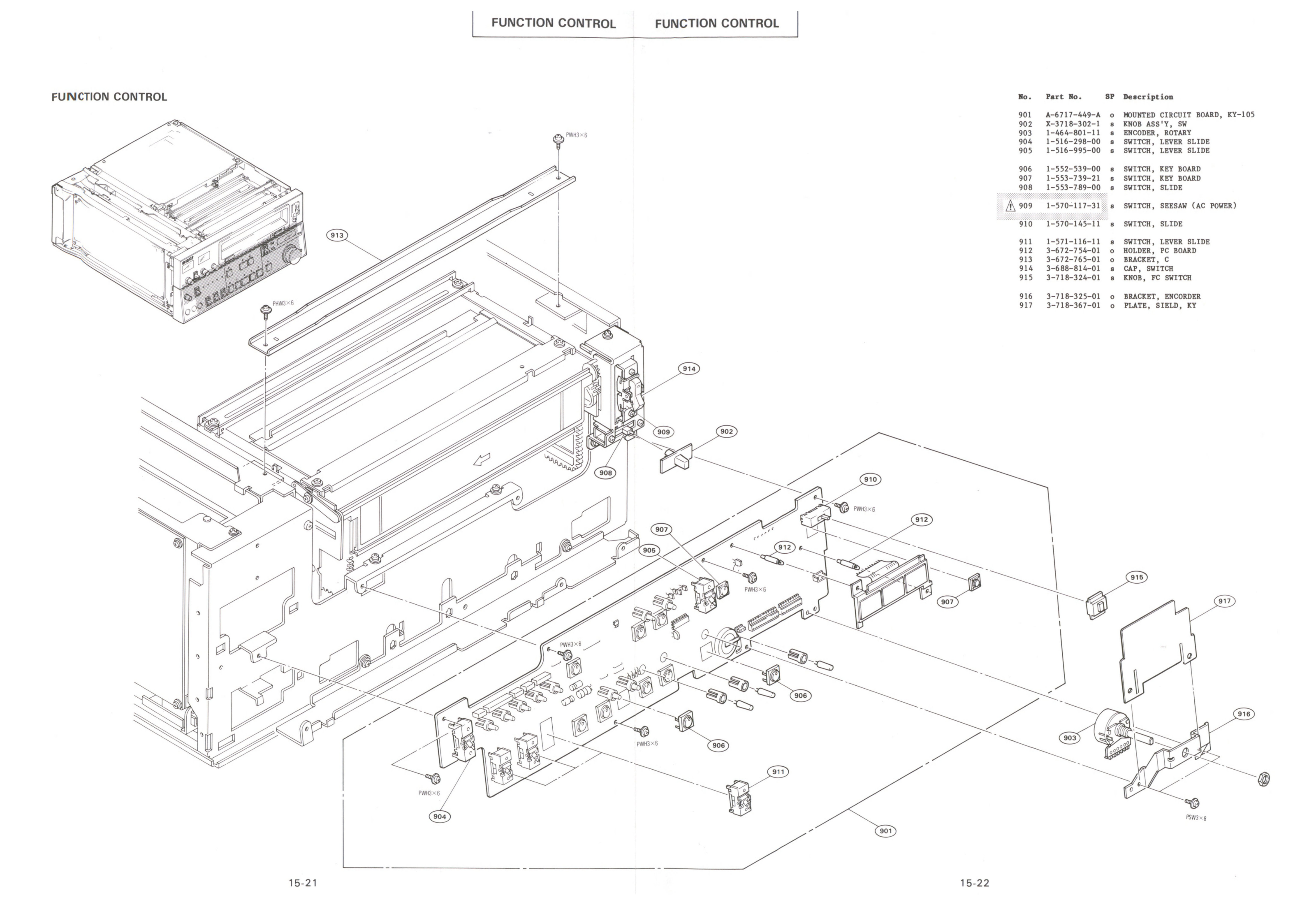
No.	Part No.	SP	Description
701	X-3668-734-0	o	BASE ASS'Y, PINCH PRESS
702	X-3668-735-3	s	LEVER ASS'Y, RESERVE PRESS
703	X-3668-736-0	o	JOINT ASS'Y
704	1-454-416-31	s	SOLENOID, PLUNGER
705	3-610-265-02	s	SPRING
707	3-645-392-00	s	SPRING, TENSION
708	3-668-863-00	s	GUIDE, ARBOR
709	3-668-864-00	s	PIN, SOLENOID
710	3-668-865-00	o	LEVER (B), PINCH PRESS
711	3-668-867-00	o	SPACER (8x9)
712	3-668-884-03	o	JOINT, RESERVE PRESS
713	3-668-896-00	o	SLEEVE, PRESS LEVER, PINCH
714	3-703-074-00	s	CAP 3, SHAFT
715	3-718-364-01	o	LEVER (A), PINCH PRESS
716	3-718-365-01	o	PLATE, PRESS, PINCH
717	3-718-727-01	o	DECK, RESERVE PRESS

CASSETTE-UP COMPARTMENT BLOCK



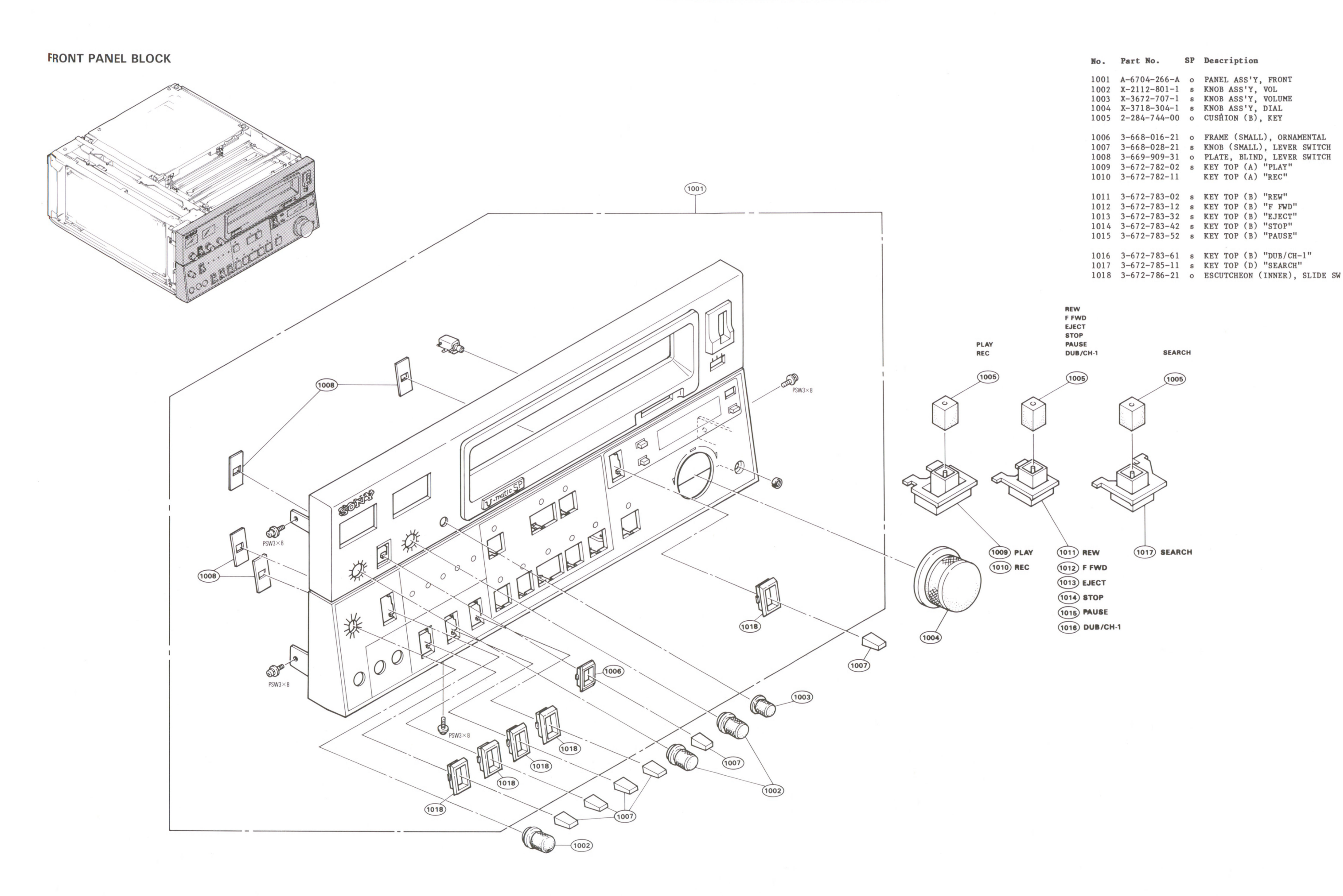
No.	Part No.	SP	Description
801	A-6751-367-A	s	CASSETTE-UP BLOCK ASS'Y
802	X-3668-057-0	s	RACK ASS'Y, CASSETTE COMPARTMENT
803	X-3668-058-0	s	RACK ASS'Y, CASSETTE COMPARTMENT
804	X-3668-059-0	s	ARM ASS'Y, SWITCH, DOWN
805	X-3668-060-3	o	HOLDER ASS'Y, ARM
806	X-3668-061-0	o	SUPPORT ASS'Y, LID
807	1-622-255-11	o	PRINTED CIRCUIT BOARD, CC-31
808	1-622-256-11	o	PRINTED CIRCUIT BOARD, CC-32
809	1-622-257-11	o	PRINTED CIRCUIT BOARD, CC-33
810	1-623-101-11	o	PRINTED CIRCUIT BOARD, LP-41
811	3-507-051-00	s	SPRING, TENSION
812	3-534-217-11	s	SPRING, TENSION
813	3-536-780-11	s	SPRING, TENSION
814	3-653-387-00	s	BELT, LM
815	3-668-295-00	o	LEVER (RIGHT), CASSETTE PUSH-OUT
816	3-668-296-00	o	LEVER (LEFT), CASSETTE PUSH-OUT
817	3-668-297-00	s	RETAINER, CASSETTE
818	3-668-298-00	o	SPRING
819	3-668-299-00	s	ROLLER, GUIDE
820	3-668-300-00	o	CAM, LID OPEN
821	3-668-301-00	o	SHAFT, DRIVING
822	3-668-303-00	s	GEAR (A)
823	3-668-304-00	s	GEAR (B)
824	3-668-305-00	s	GEAR (C)
825	3-668-306-00	s	GEAR (D)
826	3-668-307-02	o	JOINT (R), LEFT & RIGHT
827	3-668-309-00	o	BRACKET, SWITCH
828	3-668-310-02	o	ARM, LID OPEN
829	3-668-313-02	s	FRAME, SUPPORT, REFLECTOR
830	3-668-315-02	s	GEAR, LID
831	3-668-371-11	s	LID, CASSETTE
832	3-668-474-00	s	BEARING (6)
833	3-672-604-11	s	REFLECTOR
834	3-672-639-03	s	BRACKET, LAMP
835	3-672-750-01	s	PULLEY (C), MOTOR
836	3-701-439-21	s	WASHER, POLY 3MM DIA., 0.50T
837	3-718-373-01	o	RETAINER, LID
838	3-718-374-01	o	JOINT (F), LEFT & RIGHT
839	8-835-179-01	s	MOTOR, DC MCB2B15

FUNCTION CONTROL



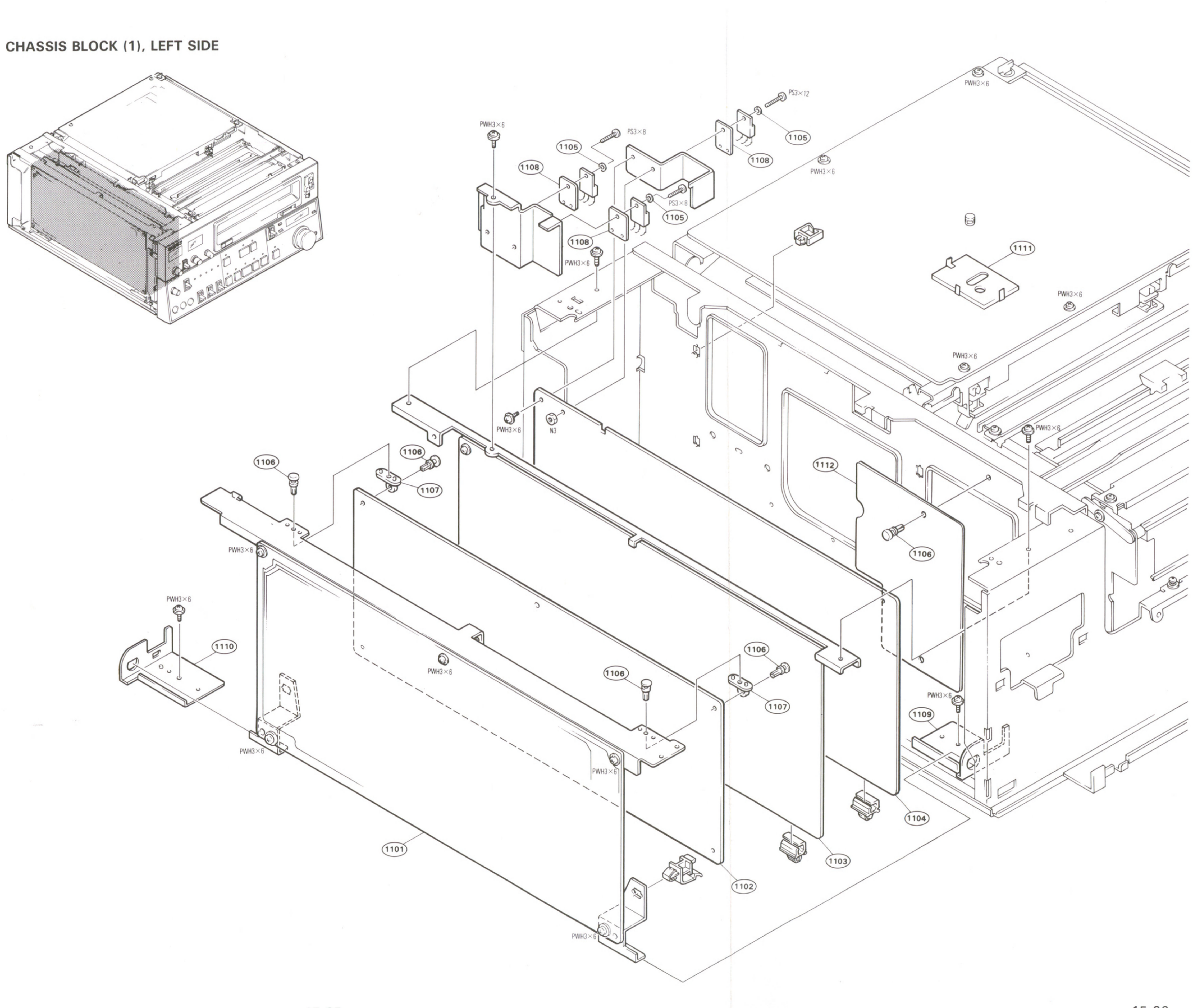
No.	Part No.	SP	Description
901	A-6717-449-A	o	MOUNTED CIRCUIT BOARD, KY-105
902	X-3718-302-1	s	KNOB ASS'Y, SW
903	1-464-801-11	s	ENCODER, ROTARY
904	1-516-298-00	s	SWITCH, LEVER SLIDE
905	1-516-995-00	s	SWITCH, LEVER SLIDE
906	1-552-539-00	s	SWITCH, KEY BOARD
907	1-553-739-21	s	SWITCH, KEY BOARD
908	1-553-789-00	s	SWITCH, SLIDE
⚠ 909	1-570-117-31	s	SWITCH, SEESAW (AC POWER)
910	1-570-145-11	s	SWITCH, SLIDE
911	1-571-116-11	s	SWITCH, LEVER SLIDE
912	3-672-754-01	o	HOLDER, PC BOARD
913	3-672-765-01	o	BRACKET, C
914	3-688-814-01	s	CAP, SWITCH
915	3-718-324-01	s	KNOB, FC SWITCH
916	3-718-325-01	o	BRACKET, ENCORDER
917	3-718-367-01	o	PLATE, SIELD, KY

FRONT PANEL BLOCK



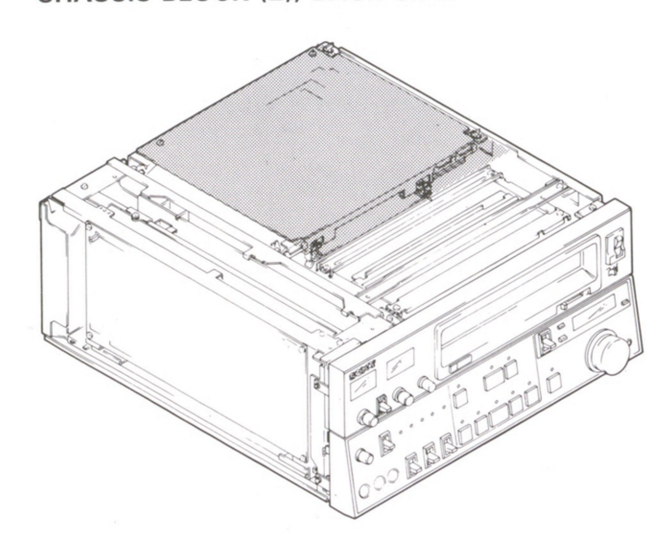
No.	Part No.	SP	Description
1001	A-6704-266-A	o	PANEL ASS'Y, FRONT
1002	X-2112-801-1	s	KNOB ASS'Y, VOL
1003	X-3672-707-1	s	KNOB ASS'Y, VOLUME
1004	X-3718-304-1	s	KNOB ASS'Y, DIAL
1005	2-284-744-00	o	CUSHION (B), KEY
1006	3-668-016-21	o	FRAME (SMALL), ORNAMENTAL
1007	3-668-028-21	s	KNOB (SMALL), LEVER SWITCH
1008	3-669-909-31	o	PLATE, BLIND, LEVER SWITCH
1009	3-672-782-02	s	KEY TOP (A) "PLAY"
1010	3-672-782-11		KEY TOP (A) "REC"
1011	3-672-783-02	s	KEY TOP (B) "REW"
1012	3-672-783-12	s	KEY TOP (B) "F FWD"
1013	3-672-783-32	s	KEY TOP (B) "EJECT"
1014	3-672-783-42	s	KEY TOP (B) "STOP"
1015	3-672-783-52	s	KEY TOP (B) "PAUSE"
1016	3-672-783-61	s	KEY TOP (B) "DUB/CH-1"
1017	3-672-785-11	s	KEY TOP (D) "SEARCH"
1018	3-672-786-21	o	ESCUTCHEON (INNER), SLIDE SW

CHASSIS BLOCK (1), LEFT SIDE



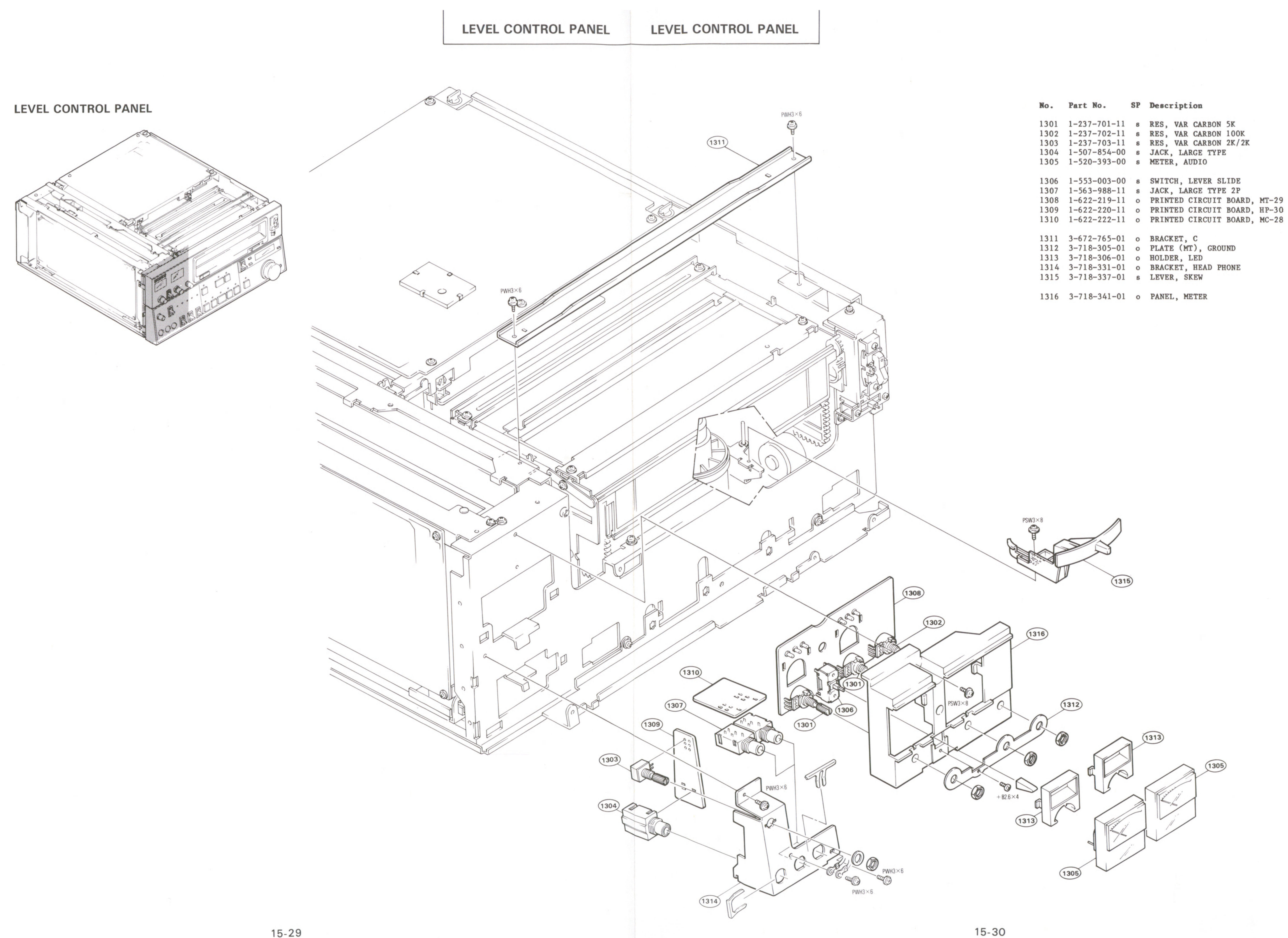
No.	Part No.	SP	Description
1101	A-6713-277-A	o	MOUNTED CIRCUIT BOARD, AU-82
1102	A-6713-278-A	o	MOUNTED CIRCUIT BOARD, AU-89
1103	A-6715-363-A	o	MOUNTED CIRCUIT BOARD, SV-93
1104	A-6717-448-A	o	MOUNTED CIRCUIT BOARD, SY-106
1105	2-371-561-00	s	BUSHING (P), INSULATING
1106	3-646-090-00	s	RIVET, NYLON
1107	3-657-153-00	o	HINGE
1108	3-703-037-00	s	INSULATOR, TO-220
1109	3-718-303-01	o	PLATE (A), HINGE, AU
1110	3-718-304-01	o	PLATE (B), HINGE, AU
1111	3-718-315-01	s	PLATE (UPPER), SHIELD, VP
1112	3-718-370-01	o	INSULATOR, SY

CHASSIS BLOCK (2), BACK SIDE



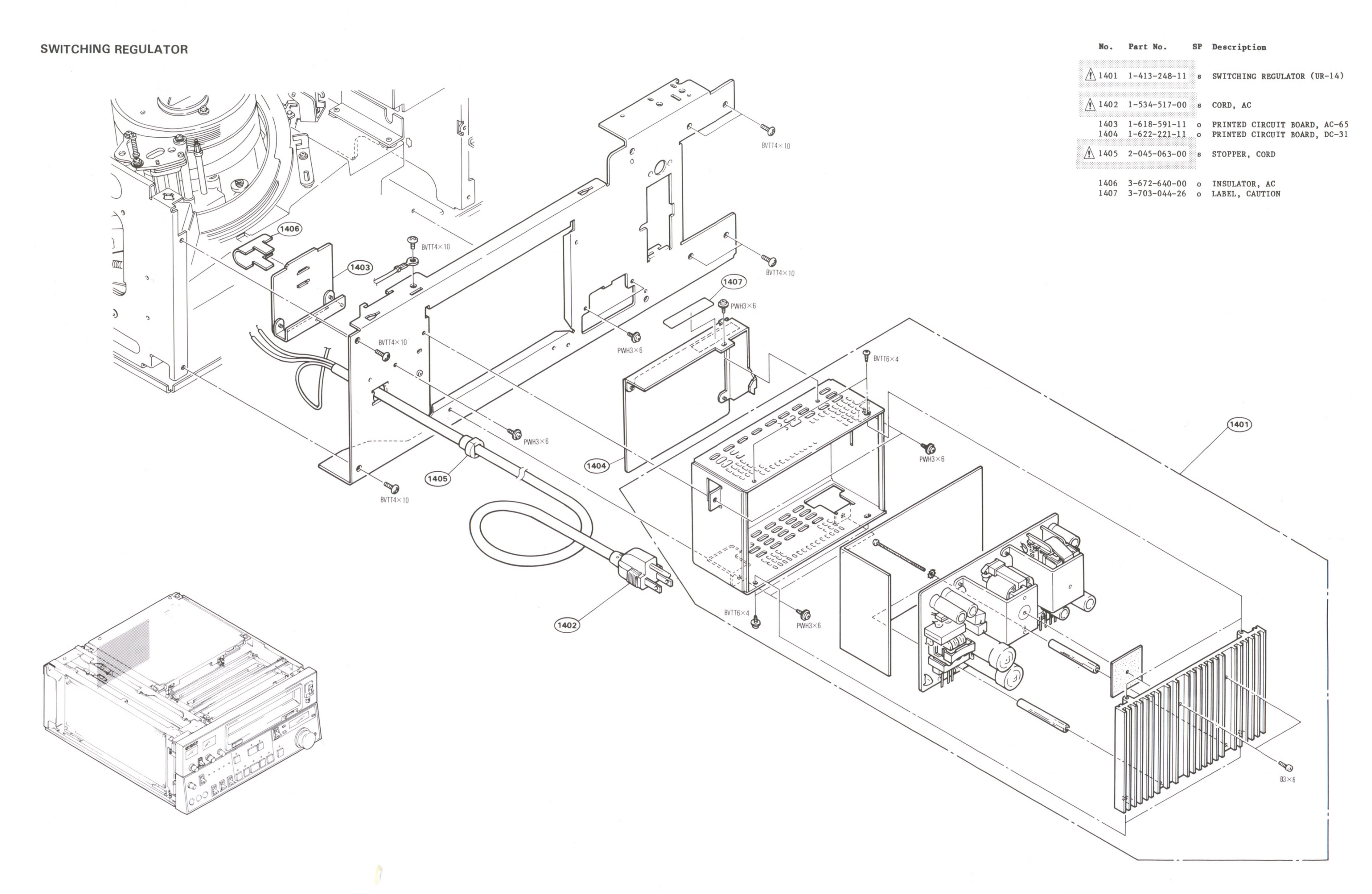
No.	Part No.	SP	Description
1201	A-6711-817-A	o	MOUNTED CIRCUIT BOARD, VP-21
1202	A-6711-818-A	o	MOUNTED CIRCUIT BOARD, VR-52
1203	X-3718-307-1	o	PLATE BLOCK ASS'Y, SHIELD, VR
1204	1-563-354-11	s	CONNECTOR, BNC
1205	1-563-356-11	s	CONNECTOR, MULTI 8P
1206	1-563-989-11	s	JACK, PIN (RCA) 1P
1207	3-646-090-00	s	RIVET, NYLON
1208	3-657-153-00	o	HINGE
1209	3-703-141-00	o	HOLDER, PCB
1210	3-710-825-01	o	FASTENER, PLATE
1211	3-718-302-01	o	BRACKET, PIN JACK
1212	3-718-315-01	s	PLATE (UPPER), SHIELD, VP
1213	3-718-316-01	o	PLATE (LOWER), SHIELD VP
1214	3-718-354-01	o	BRACKET, VR

LEVEL CONTROL PANEL



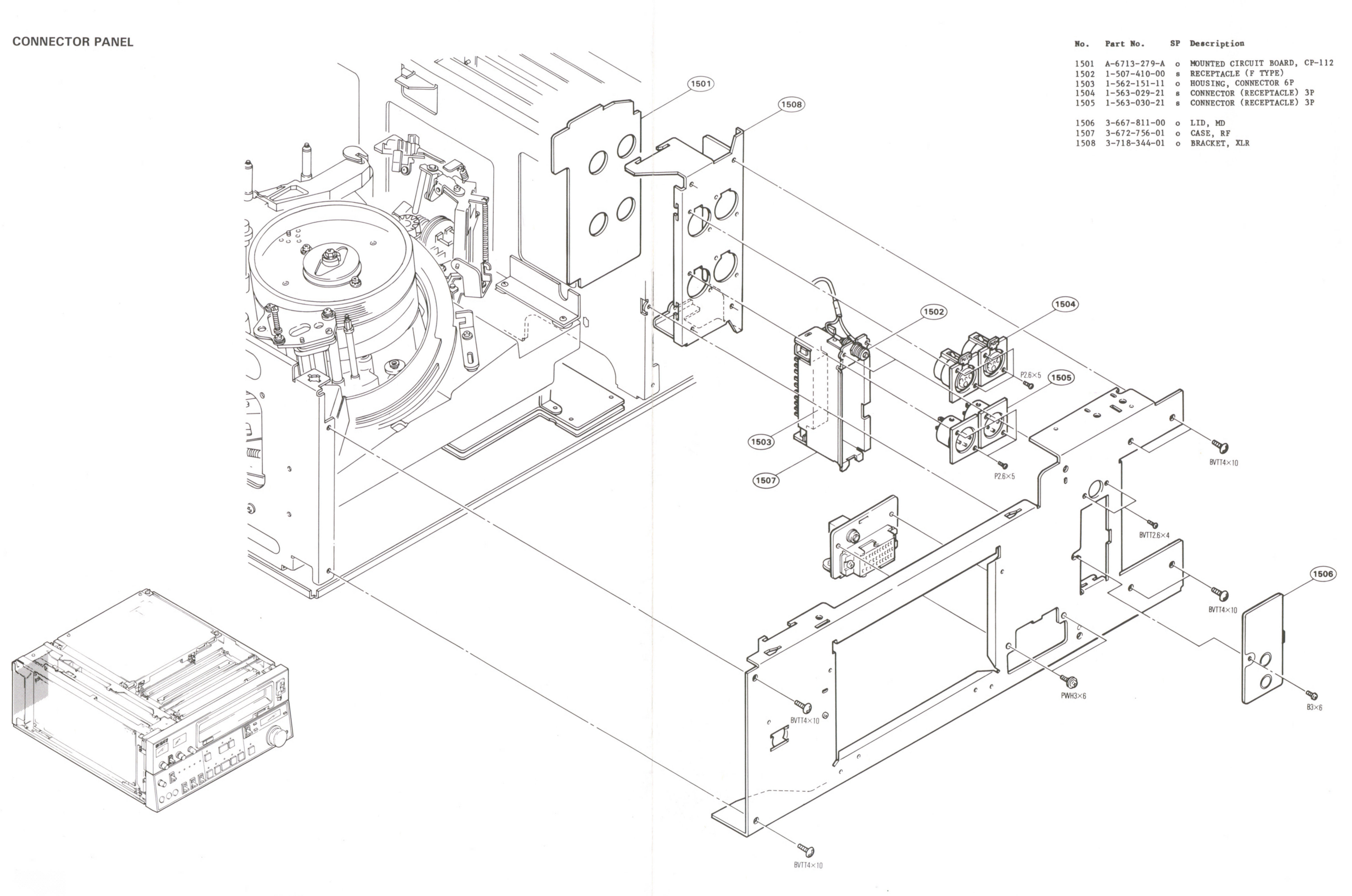
No.	Part No.	SP	Description
1301	1-237-701-11	s	RES, VAR CARBON 5K
1302	1-237-702-11	s	RES, VAR CARBON 100K
1303	1-237-703-11	s	RES, VAR CARBON 2K/2K
1304	1-507-854-00	s	JACK, LARGE TYPE
1305	1-520-393-00	s	METER, AUDIO
1306	1-553-003-00	s	SWITCH, LEVER SLIDE
1307	1-563-988-11	s	JACK, LARGE TYPE 2P
1308	1-622-219-11	o	PRINTED CIRCUIT BOARD, MT-29
1309	1-622-220-11	o	PRINTED CIRCUIT BOARD, HP-30
1310	1-622-222-11	o	PRINTED CIRCUIT BOARD, MC-28
1311	3-672-765-01	o	BRACKET, C
1312	3-718-305-01	o	PLATE (MT), GROUND
1313	3-718-306-01	o	HOLDER, LED
1314	3-718-331-01	o	BRACKET, HEAD PHONE
1315	3-718-337-01	s	LEVER, SKEW
1316	3-718-341-01	o	PANEL, METER

SWITCHING REGULATOR



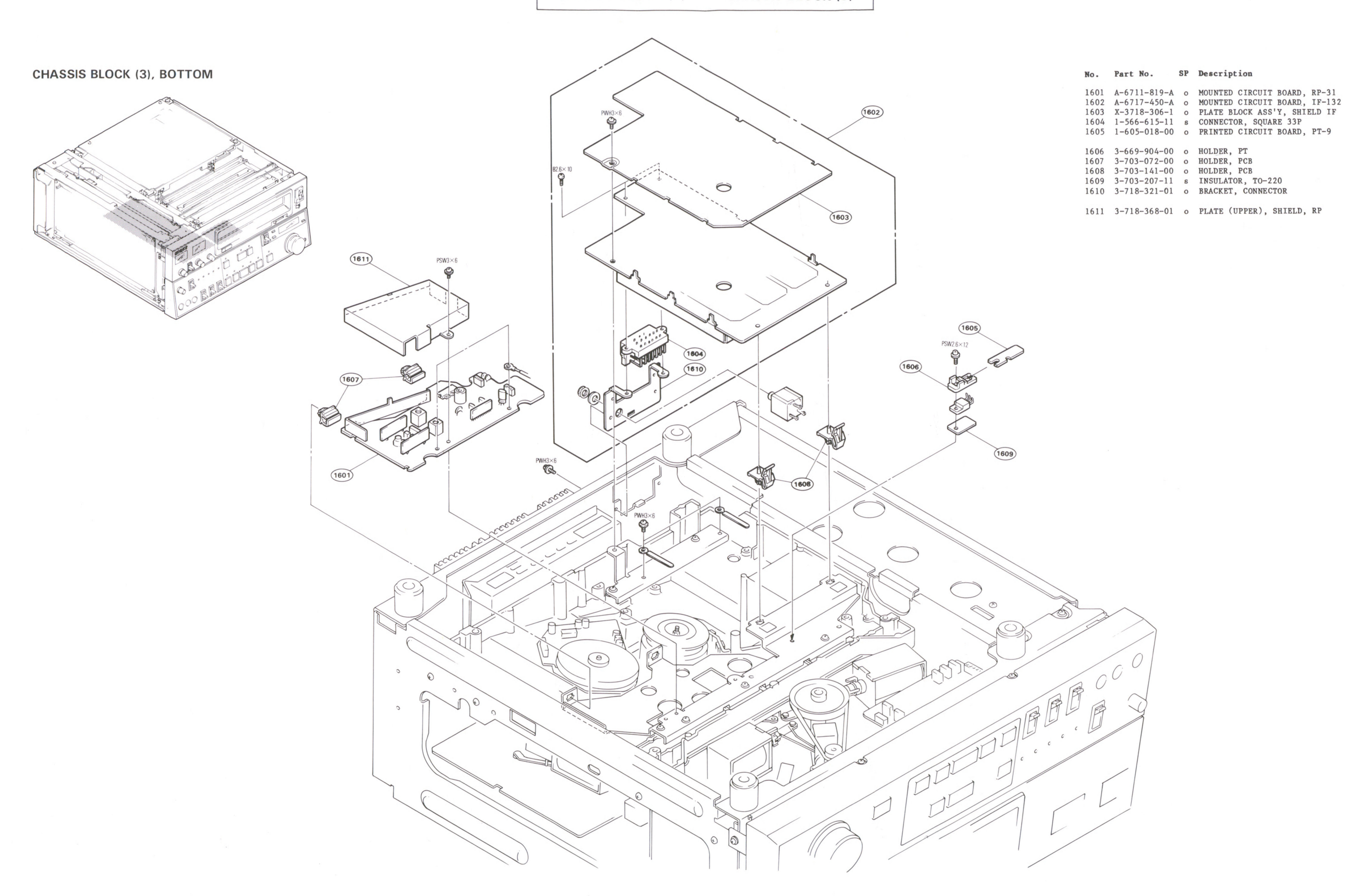
No.	Part No.	SP	Description
⚠ 1401	1-413-248-11	s	SWITCHING REGULATOR (UR-14)
⚠ 1402	1-534-517-00	s	CORD, AC
1403	1-618-591-11	o	PRINTED CIRCUIT BOARD, AC-65
1404	1-622-221-11	o	PRINTED CIRCUIT BOARD, DC-31
⚠ 1405	2-045-063-00	s	STOPPER, CORD
1406	3-672-640-00	o	INSULATOR, AC
1407	3-703-044-26	o	LABEL, CAUTION

CONNECTOR PANEL



No.	Part No.	SP	Description
1501	A-6713-279-A	o	MOUNTED CIRCUIT BOARD, CP-112
1502	1-507-410-00	s	RECEPTACLE (F TYPE)
1503	1-562-151-11	o	HOUSING, CONNECTOR 6P
1504	1-563-029-21	s	CONNECTOR (RECEPTACLE) 3P
1505	1-563-030-21	s	CONNECTOR (RECEPTACLE) 3P
1506	3-667-811-00	o	LID, MD
1507	3-672-756-01	o	CASE, RF
1508	3-718-344-01	o	BRACKET, XLR

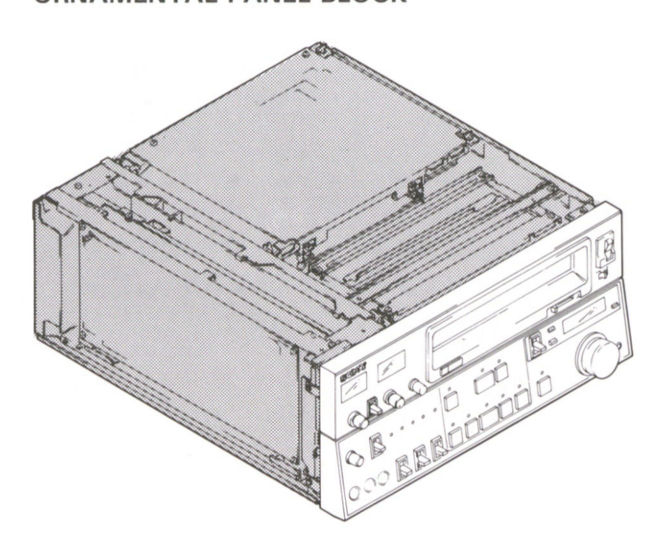
CHASSIS BLOCK (3), BOTTOM



No.	Part No.	SP	Description
1601	A-6711-819-A	o	MOUNTED CIRCUIT BOARD, RP-31
1602	A-6717-450-A	o	MOUNTED CIRCUIT BOARD, IF-132
1603	X-3718-306-1	o	PLATE BLOCK ASS'Y, SHIELD IF
1604	1-566-615-11	s	CONNECTOR, SQUARE 33P
1605	1-605-018-00	o	PRINTED CIRCUIT BOARD, PT-9
1606	3-669-904-00	o	HOLDER, PT
1607	3-703-072-00	o	HOLDER, PCB
1608	3-703-141-00	o	HOLDER, PCB
1609	3-703-207-11	s	INSULATOR, TO-220
1610	3-718-321-01	o	BRACKET, CONNECTOR
1611	3-718-368-01	o	PLATE (UPPER), SHIELD, RP

 ORNAMENTAL PANEL BLOCK

ORNAMENTAL PANEL BLOCK



No.	Part No.	SP	Description
1701	3-642-656-01	s	LEG
1702	3-672-766-01	o	BOARD, BOTTOM
1703	3-703-848-01	o	LABEL (N), SUB CAUTION
1704	3-718-347-01	o	CASE, U

15-3. ELECTRICAL PARTS LIST

General Purpose Electrical Parts List

Parts that are not listed in the "reference numbers order list" are shown in following list.
Reference numbers are omitted.

CAPACITOR

.MYLAR

Part No.	SP	Description
1-130-467-00	s	CAP, MYLAR 470pF 5% 50V
1-130-468-00	s	CAP, MYLAR 560pF 5% 50V
1-130-469-00	s	CAP, MYLAR 680pF 5% 50V
1-130-470-00	s	CAP, MYLAR 820pF 5% 50V
1-130-471-00	s	CAP, MYLAR 1000pF 5% 50V
1-130-472-00	s	CAP, MYLAR 1200pF 5% 50V
1-130-473-00	s	CAP, MYLAR 1500pF 5% 50V
1-130-474-00	s	CAP, MYLAR 1800pF 5% 50V
1-130-475-00	s	CAP, MYLAR 2200pF 5% 50V
1-130-476-00	s	CAP, MYLAR 2700pF 5% 50V
1-130-477-00	s	CAP, MYLAR 3300pF 5% 50V
1-130-478-00	s	CAP, MYLAR 3900pF 5% 50V
1-130-479-00	s	CAP, MYLAR 4700pF 5% 50V
1-130-480-00	s	CAP, MYLAR 5600pF 5% 50V
1-130-481-00	s	CAP, MYLAR 6800pF 5% 50V
1-130-482-00	s	CAP, MYLAR 8200pF 5% 50V
1-130-483-00	s	CAP, MYLAR 0.01 5% 50V
1-130-484-00	s	CAP, MYLAR 0.012 5% 50V
1-130-485-00	s	CAP, MYLAR 0.015 5% 50V
1-130-486-00	s	CAP, MYLAR 0.018 5% 50V
1-130-487-00	s	CAP, MYLAR 0.022 5% 50V
1-130-488-00	s	CAP, MYLAR 0.027 5% 50V
1-130-489-00	s	CAP, MYLAR 0.033 5% 50V
1-130-490-11	s	CAP, MYLAR 0.039 5% 50V
1-130-491-00	s	CAP, MYLAR 0.047 5% 50V
1-130-492-11	s	CAP, MYLAR 0.056 5% 50V
1-130-493-00	s	CAP, MYLAR 0.068 5% 50V
1-130-494-11	s	CAP, MYLAR 0.082 5% 50V
1-130-495-00	s	CAP, MYLAR 0.1 5% 50V
1-130-496-00	s	CAP, MYLAR 0.12 5% 50V
1-130-497-00	s	CAP, MYLAR 0.15 5% 50V
1-130-498-00	s	CAP, MYLAR 0.18 5% 50V
1-130-499-00	s	CAP, MYLAR 0.22 5% 50V
1-136-502-11	s	CAP, MYLAR 0.33 5% 50V

.MICA,SILVERED

Part No.	SP	Description
1-107-019-00	s	CAP, MICA 1.0pF ±0.5pF 500V
1-107-039-00	s	CAP, MICA 1.2pF ±0.5pF 500V
1-107-040-00	s	CAP, MICA 1.5pF ±0.5pF 500V
1-107-041-00	s	CAP, MICA 1.8pF ±0.5pF 500V
1-107-042-00	s	CAP, MICA 2.2pF ±0.5pF 500V
1-107-043-00	s	CAP, MICA 2.7pF ±0.5pF 500V
1-107-044-00	s	CAP, MICA 3.3pF ±0.5pF 500V
1-107-045-00	s	CAP, MICA 3.9pF ±0.5pF 500V
1-107-046-00	s	CAP, MICA 4.7pF ±0.5pF 500V
1-107-026-00	s	CAP, MICA 5.1pF ±0.5pF 500V
1-107-047-00	s	CAP, MICA 5.6pF ±0.5pF 500V
1-107-048-00	s	CAP, MICA 6.8pF ±0.5pF 500V
1-107-049-00	s	CAP, MICA 8.2pF ±0.5pF 500V
1-107-202-00	s	CAP, MICA 10pF 5% 500V
1-107-203-00	s	CAP, MICA 11pF 5% 500V
1-107-204-00	s	CAP, MICA 12pF 5% 500V
1-107-205-00	s	CAP, MICA 13pF 5% 500V
1-107-206-00	s	CAP, MICA 15pF 5% 500V
1-107-207-00	s	CAP, MICA 16pF 5% 500V
1-107-208-00	s	CAP, MICA 18pF 5% 500V
1-107-209-00	s	CAP, MICA 20pF 5% 500V
1-107-210-00	s	CAP, MICA 22pF 5% 500V
1-107-211-00	s	CAP, MICA 24pF 5% 500V
1-107-157-00	s	CAP, MICA 27pF 5% 500V
1-107-158-00	s	CAP, MICA 30pF 5% 500V
1-107-159-00	s	CAP, MICA 33pF 5% 500V
1-107-074-00	s	CAP, MICA 36pF 5% 50V
1-107-075-00	s	CAP, MICA 39pF 5% 50V
1-107-076-00	s	CAP, MICA 43pF 5% 50V
1-107-077-00	s	CAP, MICA 47pF 5% 50V
1-107-164-00	s	CAP, MICA 51pF 5% 500V
1-107-165-00	s	CAP, MICA 56pF 5% 500V
1-107-166-00	s	CAP, MICA 62pF 5% 500V
1-107-036-00	s	CAP, MICA 68pF 5% 500V
1-107-167-00	s	CAP, MICA 75pF 5% 500V
1-107-083-00	s	CAP, MICA 82pF 5% 50V
1-107-084-00	s	CAP, MICA 91pF 5% 50V
1-107-085-00	s	CAP, MICA 100pF 5% 50V
1-107-086-00	s	CAP, MICA 110pF 5% 50V
1-107-087-00	s	CAP, MICA 120pF 5% 50V
1-109-538-00	s	CAP, MICA 130pF 5% 100V
1-109-539-00	s	CAP, MICA 150pF 5% 100V
1-107-090-00	s	CAP, MICA 160pF 5% 50V
1-109-540-00	s	CAP, MICA 180pF 5% 100V
1-109-541-00	s	CAP, MICA 200pF 5% 100V
1-109-542-00	s	CAP, MICA 220pF 5% 100V
1-109-545-00	s	CAP, MICA 270pF 5% 100V
1-109-547-00	s	CAP, MICA 330pF 5% 100V
1-109-549-00	s	CAP, MICA 390pF 5% 100V
1-109-633-00	s	CAP, MICA 470pF 2% 500V
1-109-555-00	s	CAP, MICA 560pF 5% 100V
1-109-635-00	s	CAP, MICA 470pF 2% 500V

Part No.	SP	Description
.ELECTROLYTIC		
1-124-902-00	s	CAP, ELECT 0.47 20% 50V
1-124-791-11	s	CAP, ELECT 1.0 20% 100V
1-124-925-11	s	CAP, ELECT 2.2 20% 100V
1-123-382-00	s	CAP, ELECT 3.3 20% 100V
1-124-927-00	s	CAP, ELECT 4.7 20% 100V
1-123-875-91	s	CAP, ELECT 10 20% 50V
1-124-915-11	s	CAP, ELECT 10 20% 63V
1-124-667-11	s	CAP, ELECT 10 20% 100V
1-124-908-11	s	CAP, ELECT 22 20% 50V
1-124-916-11	s	CAP, ELECT 22 20% 63V
1-124-929-11	s	CAP, ELECT 22 20% 100V
1-124-963-11	s	CAP, ELECT 33 20% 16V
1-124-482-11	s	CAP, ELECT 33 20% 35V
1-124-917-11	s	CAP, ELECT 33 20% 63V
1-124-930-11	s	CAP, ELECT 33 20% 100V
1-124-446-11	s	CAP, ELECT 47 20% 10V
1-124-477-11	s	CAP, ELECT 47 20% 25V
1-124-910-11	s	CAP, ELECT 47 20% 50V
1-124-918-11	s	CAP, ELECT 47 20% 63V
1-124-931-11	s	CAP, ELECT 47 20% 100V
1-124-443-00	s	CAP, ELECT 100 20% 10V
1-126-101-11	s	CAP, ELECT 100 20% 16V
1-124-478-11	s	CAP, ELECT 100 20% 25V
1-124-122-11	s	CAP, ELECT 100 20% 50V
1-124-572-11	s	CAP, ELECT 100 20% 63V
1-123-605-00	s	CAP, ELECT 100 20% 100V
1-124-444-00	s	CAP, ELECT 220 20% 10V
1-124-120-11	s	CAP, ELECT 220 20% 25V
1-124-484-11	s	CAP, ELECT 220 20% 35V
1-124-911-11	s	CAP, ELECT 220 20% 50V
1-124-919-51	s	CAP, ELECT 220 20% 63V
1-124-628-11	s	CAP, ELECT 220 20% 100V
1-124-442-00	s	CAP, ELECT 330 20% 6.3V
1-124-604-00	s	CAP, ELECT 330 20% 10V
1-124-119-00	s	CAP, ELECT 330 20% 16V
1-124-479-11	s	CAP, ELECT 330 20% 25V
1-124-485-11	s	CAP, ELECT 330 20% 35V
1-124-912-11	s	CAP, ELECT 330 20% 50V
1-124-472-11	s	CAP, ELECT 470 20% 10V
1-124-475-11	s	CAP, ELECT 470 20% 16V
1-124-480-11	s	CAP, ELECT 470 20% 25V
1-126-104-11	s	CAP, ELECT 470 20% 35V
1-124-913-11	s	CAP, ELECT 470 20% 50V
1-124-921-11	s	CAP, ELECT 470 20% 63V
1-124-471-00	s	CAP, ELECT 1000 20% 6.3V
1-124-473-11	s	CAP, ELECT 1000 20% 10V
1-124-555-00	s	CAP, ELECT 1000 20% 16V
1-124-557-11	s	CAP, ELECT 1000 20% 25V
1-126-105-11	s	CAP, ELECT 1000 20% 35V
1-124-637-11	s	CAP, ELECT 1000 20% 50V
1-124-922-11	s	CAP, ELECT 1000 20% 63V
1-124-893-11	s	CAP, ELECT 2200 20% 10V
1-124-556-11	s	CAP, ELECT 2200 20% 16V
1-124-563-11	s	CAP, ELECT 2200 20% 25V
1-124-618-11	s	CAP, ELECT 2200 20% 35V

Part No.	SP	Description
1-124-607-11	s	CAP, ELECT 2200 20% 50V
1-124-621-11	s	CAP, ELECT 3300 20% 6.3V
1-124-887-00	s	CAP, ELECT 3300 20% 16V
1-124-636-00	s	CAP, ELECT 3300 20% 25V
1-124-762-00	s	CAP, ELECT 4700 20% 10V
1-124-898-11	s	CAP, ELECT 4700 20% 16V
1-124-564-11	s	CAP, ELECT 4700 20% 25V
1-124-891-11	s	CAP, ELECT 10000 20% 6.3V
1-124-763-00	s	CAP, ELECT 10000 20% 10V

Part No.	SP	Description

.CHIP, CERAMIC

Part No.	SP	Description			
1-163-083-00	s	CAP, CHIP CERAMIC	1pF	±0.25pF	50V
1-163-085-00	s	CAP, CHIP CERAMIC	2pF	±0.25pF	50V
1-163-087-00	s	CAP, CHIP CERAMIC	4pF	±0.25pF	50V
1-163-089-00	s	CAP, CHIP CERAMIC	6pF	±0.5pF	50V
1-163-091-00	s	CAP, CHIP CERAMIC	8pF	±0.5pF	50V
1-163-093-00	s	CAP, CHIP CERAMIC	10pF	5%	50V
1-163-097-00	s	CAP, CHIP CERAMIC	15pF	5%	50V
1-163-101-00	s	CAP, CHIP CERAMIC	22pF	5%	50V
1-163-105-00	s	CAP, CHIP CERAMIC	33pF	5%	50V
1-163-109-00	s	CAP, CHIP CERAMIC	47pF	5%	50V
1-163-113-00	s	CAP, CHIP CERAMIC	68pF	5%	50V
1-163-117-00	s	CAP, CHIP CERAMIC	100pF	5%	50V
1-163-121-00	s	CAP, CHIP CERAMIC	150pF	5%	50V
1-163-125-00	s	CAP, CHIP CERAMIC	220pF	5%	50V
1-163-129-00	s	CAP, CHIP CERAMIC	330pF	5%	50V
1-163-133-00	s	CAP, CHIP CERAMIC	470pF	5%	50V
1-163-137-00	s	CAP, CHIP CERAMIC	680pF	5%	50V
1-163-141-00	s	CAP, CHIP CERAMIC	1000pF	5%	50V
1-163-145-00	s	CAP, CHIP CERAMIC	1500pF	10%	50V
1-163-013-00	s	CAP, CHIP CERAMIC	2200pF	10%	50V
1-163-015-00	s	CAP, CHIP CERAMIC	3300pF	10%	50V
1-163-017-00	s	CAP, CHIP CERAMIC	4700pF	10%	50V
1-163-019-00	s	CAP, CHIP CERAMIC	6800pF	10%	50V
1-163-021-00	s	CAP, CHIP CERAMIC	0.01	10%	50V
1-163-023-00	s	CAP, CHIP CERAMIC	0.015	10%	50V
1-163-034-00	s	CAP, CHIP CERAMIC	0.033		50V
1-163-035-00	s	CAP, CHIP CERAMIC	0.047		50V
1-163-036-00	s	CAP, CHIP CERAMIC	0.068		50V
1-163-038-00	s	CAP, CHIP CERAMIC	0.1		50V

INDUCTOR

.MICRO

Part No.	SP	Description		
1-408-397-00	s	INDUCTOR, MICRO	1.0	5%
1-408-399-00	s	INDUCTOR, MICRO	1.5	5%
1-408-400-00	s	INDUCTOR, MICRO	1.8	5%
1-408-401-00	s	INDUCTOR, MICRO	2.2	5%
1-408-403-00	s	INDUCTOR, MICRO	3.3	5%
1-408-404-00	s	INDUCTOR, MICRO	3.9	5%
1-408-405-00	s	INDUCTOR, MICRO	4.7	5%
1-408-406-00	s	INDUCTOR, MICRO	5.6	5%
1-408-407-00	s	INDUCTOR, MICRO	6.8	5%
1-408-408-00	s	INDUCTOR, MICRO	8.2	5%
1-408-409-00	s	INDUCTOR, MICRO	10	5%
1-408-410-00	s	INDUCTOR, MICRO	12	5%
1-408-411-00	s	INDUCTOR, MICRO	15	5%
1-408-412-00	s	INDUCTOR, MICRO	18	5%
1-408-413-00	s	INDUCTOR, MICRO	22	5%
1-408-414-00	s	INDUCTOR, MICRO	27	5%
1-408-415-00	s	INDUCTOR, MICRO	33	5%
1-408-416-00	s	INDUCTOR, MICRO	39	5%
1-408-417-00	s	INDUCTOR, MICRO	47	5%
1-408-418-00	s	INDUCTOR, MICRO	56	5%
1-408-419-00	s	INDUCTOR, MICRO	68	5%
1-408-420-00	s	INDUCTOR, MICRO	82	5%
1-408-421-00	s	INDUCTOR, MICRO	100	5%
1-408-422-00	s	INDUCTOR, MICRO	120	5%
1-408-423-00	s	INDUCTOR, MICRO	150	5%
1-408-424-00	s	INDUCTOR, MICRO	180	5%
1-408-425-00	s	INDUCTOR, MICRO	220	5%
1-408-426-00	s	INDUCTOR, MICRO	270	5%
1-408-427-00	s	INDUCTOR, MICRO	330	5%
1-408-428-00	s	INDUCTOR, MICRO	390	5%
1-408-429-00	s	INDUCTOR, MICRO	470	5%
1-410-116-11	s	INDUCTOR, MICRO	560	5%
1-410-492-11	s	INDUCTOR, MICRO	680	5%
1-410-493-11	s	INDUCTOR, MICRO	820	5%
1-410-494-11	s	INDUCTOR, MICRO	1000	5%

Part No.	SP	Description

RESISTOR

.CARBON

Part No.	SP	Description
1-249-381-11	s	RES, CARBON 1.0 5% 1/6W
1-249-382-11	s	RES, CARBON 1.2 5% 1/6W
1-249-383-11	s	RES, CARBON 1.5 5% 1/6W
1-249-384-11	s	RES, CARBON 1.8 5% 1/6W
1-249-385-11	s	RES, CARBON 2.2 5% 1/6W
1-249-386-11	s	RES, CARBON 2.7 5% 1/6W
1-249-387-11	s	RES, CARBON 3.3 5% 1/6W
1-249-388-11	s	RES, CARBON 3.9 5% 1/6W
1-249-389-11	s	RES, CARBON 4.7 5% 1/6W
1-249-390-11	s	RES, CARBON 5.6 5% 1/6W
1-249-391-11	s	RES, CARBON 6.8 5% 1/6W
1-249-392-11	s	RES, CARBON 8.2 5% 1/6W
1-249-393-11	s	RES, CARBON 10 5% 1/6W
1-249-394-11	s	RES, CARBON 12 5% 1/6W
1-249-395-11	s	RES, CARBON 15 5% 1/6W
1-249-396-11	s	RES, CARBON 18 5% 1/6W
1-249-397-11	s	RES, CARBON 22 5% 1/6W
1-249-398-11	s	RES, CARBON 27 5% 1/6W
1-249-399-11	s	RES, CARBON 33 5% 1/6W
1-249-400-11	s	RES, CARBON 39 5% 1/6W
1-249-401-11	s	RES, CARBON 47 5% 1/6W
1-249-402-11	s	RES, CARBON 56 5% 1/6W
1-249-403-11	s	RES, CARBON 68 5% 1/6W
1-215-394-00	s	RES, METAL 75 1% 1/6W
1-249-404-11	s	RES, CARBON 82 5% 1/6W
1-249-405-11	s	RES, CARBON 100 5% 1/6W
1-249-406-11	s	RES, CARBON 120 5% 1/6W
1-249-407-11	s	RES, CARBON 150 5% 1/6W
1-249-408-11	s	RES, CARBON 180 5% 1/6W
1-249-409-11	s	RES, CARBON 220 5% 1/6W
1-249-410-11	s	RES, CARBON 270 5% 1/6W
1-249-411-11	s	RES, CARBON 330 5% 1/6W
1-249-412-11	s	RES, CARBON 390 5% 1/6W
1-249-413-11	s	RES, CARBON 470 5% 1/6W
1-249-414-11	s	RES, CARBON 560 5% 1/6W
1-249-415-11	s	RES, CARBON 680 5% 1/6W
1-249-416-11	s	RES, CARBON 820 5% 1/6W
1-249-417-11	s	RES, CARBON 1.0k 5% 1/6W
1-249-418-11	s	RES, CARBON 1.2k 5% 1/6W
1-249-419-11	s	RES, CARBON 1.5k 5% 1/6W
1-249-420-11	s	RES, CARBON 1.8k 5% 1/6W
1-249-421-11	s	RES, CARBON 2.2k 5% 1/6W
1-249-422-11	s	RES, CARBON 2.7k 5% 1/6W
1-249-423-11	s	RES, CARBON 3.3k 5% 1/6W
1-249-424-11	s	RES, CARBON 3.9k 5% 1/6W
1-249-425-11	s	RES, CARBON 4.7k 5% 1/6W
1-249-426-11	s	RES, CARBON 5.6k 5% 1/6W
1-249-427-11	s	RES, CARBON 6.8k 5% 1/6W
1-249-428-11	s	RES, CARBON 8.2k 5% 1/6W
1-249-429-11	s	RES, CARBON 10k 5% 1/6W
1-249-430-11	s	RES, CARBON 12k 5% 1/6W
1-249-431-11	s	RES, CARBON 15k 5% 1/6W
1-249-432-11	s	RES, CARBON 18k 5% 1/6W
1-249-433-11	s	RES, CARBON 22k 5% 1/6W
1-249-434-11	s	RES, CARBON 27k 5% 1/6W

Part No.	SP	Description
1-249-435-11	s	RES, CARBON 33k 5% 1/6W
1-249-436-11	s	RES, CARBON 39k 5% 1/6W
1-249-437-11	s	RES, CARBON 47k 5% 1/6W
1-249-438-11	s	RES, CARBON 56k 5% 1/6W
1-249-439-11	s	RES, CARBON 68k 5% 1/6W
1-249-440-11	s	RES, CARBON 82k 5% 1/6W
1-249-441-11	s	RES, CARBON 100k 5% 1/6W
1-215-471-00	s	RES, METAL 120k 1% 1/6W
1-215-473-00	s	RES, METAL 150k 1% 1/6W
1-215-475-00	s	RES, METAL 180k 1% 1/6W
1-215-477-00	s	RES, METAL 220k 1% 1/6W
1-215-479-00	s	RES, METAL 270k 1% 1/6W
1-215-481-00	s	RES, METAL 330k 1% 1/6W
1-215-483-00	s	RES, METAL 390k 1% 1/6W
1-215-485-00	s	RES, METAL 470k 1% 1/6W
1-215-487-00	s	RES, METAL 560k 1% 1/6W
1-215-489-00	s	RES, METAL 680k 1% 1/6W
1-215-491-00	s	RES, METAL 820k 1% 1/6W
1-215-493-00	s	RES, METAL 1.0M 1% 1/6W

Part No.	SP	Description
.METAL		
1-215-373-31	s	RES, METAL 10 1% 1/6W
1-215-374-00	s	RES, METAL 11 1% 1/6W
1-215-375-00	s	RES, METAL 12 1% 1/6W
1-215-376-00	s	RES, METAL 13 1% 1/6W
1-215-377-00	s	RES, METAL 15 1% 1/6W
1-215-378-00	s	RES, METAL 16 1% 1/6W
1-215-379-00	s	RES, METAL 18 1% 1/6W
1-215-380-00	s	RES, METAL 20 1% 1/6W
1-215-381-00	s	RES, METAL 22 1% 1/6W
1-215-382-00	s	RES, METAL 24 1% 1/6W
1-215-383-00	s	RES, METAL 27 1% 1/6W
1-215-384-00	s	RES, METAL 30 1% 1/6W
1-215-385-00	s	RES, METAL 33 1% 1/6W
1-215-386-00	s	RES, METAL 36 1% 1/6W
1-215-387-00	s	RES, METAL 39 1% 1/6W
1-215-388-00	s	RES, METAL 43 1% 1/6W
1-215-389-00	s	RES, METAL 47 1% 1/6W
1-215-390-00	s	RES, METAL 51 1% 1/6W
1-215-391-00	s	RES, METAL 56 1% 1/6W
1-215-392-00	s	RES, METAL 62 1% 1/6W
1-215-393-00	s	RES, METAL 68 1% 1/6W
1-215-394-00	s	RES, METAL 75 1% 1/6W
1-215-395-00	s	RES, METAL 82 1% 1/6W
1-215-396-00	s	RES, METAL 91 1% 1/6W
1-215-397-00	s	RES, METAL 100 1% 1/6W
1-215-398-00	s	RES, METAL 110 1% 1/6W
1-215-399-00	s	RES, METAL 120 1% 1/6W
1-215-400-00	s	RES, METAL 130 1% 1/6W
1-215-401-00	s	RES, METAL 150 1% 1/6W
1-215-402-00	s	RES, METAL 160 1% 1/6W
1-215-403-00	s	RES, METAL 180 1% 1/6W
1-215-404-00	s	RES, METAL 200 1% 1/6W
1-215-405-00	s	RES, METAL 220 1% 1/6W
1-215-406-00	s	RES, METAL 240 1% 1/6W
1-215-407-00	s	RES, METAL 270 1% 1/6W
1-215-408-00	s	RES, METAL 300 1% 1/6W
1-215-409-00	s	RES, METAL 330 1% 1/6W
1-215-410-00	s	RES, METAL 360 1% 1/6W
1-215-411-00	s	RES, METAL 390 1% 1/6W
1-215-412-00	s	RES, METAL 430 1% 1/6W
1-215-413-00	s	RES, METAL 470 1% 1/6W
1-215-414-00	s	RES, METAL 510 1% 1/6W
1-215-415-00	s	RES, METAL 560 1% 1/6W
1-215-416-00	s	RES, METAL 620 1% 1/6W
1-215-417-00	s	RES, METAL 680 1% 1/6W
1-215-418-00	s	RES, METAL 750 1% 1/6W
1-215-419-00	s	RES, METAL 820 1% 1/6W
1-215-420-00	s	RES, METAL 910 1% 1/6W
1-215-421-00	s	RES, METAL 1.0k 1% 1/6W
1-215-422-00	s	RES, METAL 1.1k 1% 1/6W
1-215-423-00	s	RES, METAL 1.2k 1% 1/6W
1-215-424-00	s	RES, METAL 1.3k 1% 1/6W
1-215-425-00	s	RES, METAL 1.5k 1% 1/6W
1-215-426-00	s	RES, METAL 1.6k 1% 1/6W
1-215-427-00	s	RES, METAL 1.8k 1% 1/6W
1-215-428-00	s	RES, METAL 2.0k 1% 1/6W
1-215-429-00	s	RES, METAL 2.2k 1% 1/6W
1-215-430-00	s	RES, METAL 2.4k 1% 1/6W
1-215-431-00	s	RES, METAL 2.7k 1% 1/6W
1-215-432-00	s	RES, METAL 3.0k 1% 1/6W

Part No.	SP	Description
1-215-433-00	s	RES, METAL 3.3k 1% 1/6W
1-215-434-00	s	RES, METAL 3.6k 1% 1/6W
1-215-435-00	s	RES, METAL 3.9k 1% 1/6W
1-215-436-00	s	RES, METAL 4.3k 1% 1/6W
1-215-437-00	s	RES, METAL 4.7k 1% 1/6W
1-215-438-00	s	RES, METAL 5.1k 1% 1/6W
1-215-439-00	s	RES, METAL 5.6k 1% 1/6W
1-215-440-00	s	RES, METAL 6.2k 1% 1/6W
1-215-441-00	s	RES, METAL 6.8k 1% 1/6W
1-215-442-00	s	RES, METAL 7.5k 1% 1/6W
1-215-443-00	s	RES, METAL 8.2k 1% 1/6W
1-215-444-00	s	RES, METAL 9.1k 1% 1/6W
1-215-445-00	s	RES, METAL 10k 1% 1/6W
1-215-446-00	s	RES, METAL 11k 1% 1/6W
1-215-447-00	s	RES, METAL 12k 1% 1/6W
1-215-448-00	s	RES, METAL 13k 1% 1/6W
1-215-449-00	s	RES, METAL 15k 1% 1/6W
1-215-450-00	s	RES, METAL 16k 1% 1/6W
1-215-451-00	s	RES, METAL 18k 1% 1/6W
1-215-452-00	s	RES, METAL 20k 1% 1/6W
1-215-453-00	s	RES, METAL 22k 1% 1/6W
1-215-454-00	s	RES, METAL 24k 1% 1/6W
1-215-455-00	s	RES, METAL 27k 1% 1/6W
1-215-456-00	s	RES, METAL 30k 1% 1/6W
1-215-457-00	s	RES, METAL 33k 1% 1/6W
1-215-458-00	s	RES, METAL 36k 1% 1/6W
1-215-459-00	s	RES, METAL 39k 1% 1/6W
1-215-460-00	s	RES, METAL 43k 1% 1/6W
1-215-461-00	s	RES, METAL 47k 1% 1/6W
1-215-462-00	s	RES, METAL 51k 1% 1/6W
1-215-463-00	s	RES, METAL 56k 1% 1/6W
1-215-464-00	s	RES, METAL 62k 1% 1/6W
1-215-465-00	s	RES, METAL 68k 1% 1/6W
1-215-466-00	s	RES, METAL 75k 1% 1/6W
1-215-467-00	s	RES, METAL 82k 1% 1/6W
1-215-468-00	s	RES, METAL 91k 1% 1/6W
1-215-469-00	s	RES, METAL 100k 1% 1/6W
1-215-470-00	s	RES, METAL 110k 1% 1/6W
1-215-471-00	s	RES, METAL 120k 1% 1/6W
1-215-472-00	s	RES, METAL 130k 1% 1/6W
1-215-473-00	s	RES, METAL 150k 1% 1/6W
1-215-474-00	s	RES, METAL 160k 1% 1/6W
1-215-475-00	s	RES, METAL 180k 1% 1/6W
1-215-476-00	s	RES, METAL 200k 1% 1/6W
1-215-477-00	s	RES, METAL 220k 1% 1/6W
1-215-478-00	s	RES, METAL 240k 1% 1/6W
1-215-479-00	s	RES, METAL 270k 1% 1/6W
1-215-480-00	s	RES, METAL 300k 1% 1/6W
1-215-481-00	s	RES, METAL 330k 1% 1/6W
1-215-482-00	s	RES, METAL 360k 1% 1/6W
1-215-483-00	s	RES, METAL 390k 1% 1/6W
1-215-484-00	s	RES, METAL 430k 1% 1/6W
1-215-485-00	s	RES, METAL 470k 1% 1/6W
1-215-486-00	s	RES, METAL 510k 1% 1/6W
1-215-487-00	s	RES, METAL 560k 1% 1/6W
1-215-488-00	s	RES, METAL 620k 1% 1/6W
1-215-489-00	s	RES, METAL 680k 1% 1/6W
1-215-490-00	s	RES, METAL 750k 1% 1/6W
1-215-491-00	s	RES, METAL 820k 1% 1/6W
1-215-492-00	s	RES, METAL 910k 1% 1/6W
1-215-493-00	s	RES, METAL 1.0M 1% 1/6W

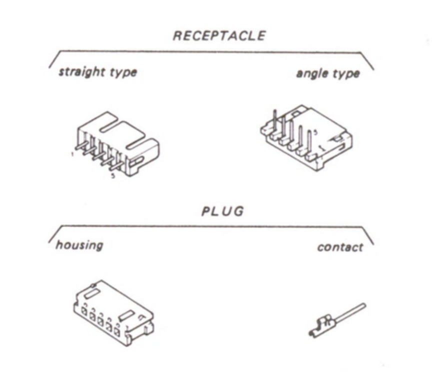
Part No.	SP	Description
.CHIP		
1-216-295-00	s	RES, CHIP 0 5% 1/10W
1-216-298-00	s	RES, CHIP 2.2 5% 1/10W
1-216-302-00	s	RES, CHIP 2.7 5% 1/10W
1-216-304-00	s	RES, CHIP 3.3 5% 1/10W
1-216-306-00	s	RES, CHIP 3.9 5% 1/10W
1-216-308-00	s	RES, CHIP 4.7 5% 1/10W
1-216-309-00	s	RES, CHIP 5.6 5% 1/10W
1-216-311-00	s	RES, CHIP 6.8 5% 1/10W
1-216-313-00	s	RES, CHIP 8.2 5% 1/10W
1-216-001-00	s	RES, CHIP 10 5% 1/10W
1-216-003-00	s	RES, CHIP 12 5% 1/10W
1-216-005-00	s	RES, CHIP 15 5% 1/10W
1-216-007-00	s	RES, CHIP 18 5% 1/10W
1-216-009-00	s	RES, CHIP 22 5% 1/10W
1-216-011-00	s	RES, CHIP 27 5% 1/10W
1-216-013-00	s	RES, CHIP 33 5% 1/10W
1-216-015-00	s	RES, CHIP 39 5% 1/10W
1-216-017-00	s	RES, CHIP 47 5% 1/10W
1-216-019-00	s	RES, CHIP 56 5% 1/10W
1-216-021-00	s	RES, CHIP 68 5% 1/10W
1-216-023-00	s	RES, CHIP 82 5% 1/10W
1-216-025-00	s	RES, CHIP 100 5% 1/10W
1-216-027-00	s	RES, CHIP 120 5% 1/10W
1-216-029-00	s	RES, CHIP 150 5% 1/10W
1-216-031-00	s	RES, CHIP 180 5% 1/10W
1-216-033-00	s	RES, CHIP 220 5% 1/10W
1-216-035-00	s	RES, CHIP 270 5% 1/10W
1-216-037-00	s	RES, CHIP 330 5% 1/10W
1-216-039-00	s	RES, CHIP 390 5% 1/10W
1-216-041-00	s	RES, CHIP 470 5% 1/10W
1-216-043-00	s	RES, CHIP 560 5% 1/10W
1-216-045-00	s	RES, CHIP 680 5% 1/10W
1-216-047-00	s	RES, CHIP 820 5% 1/10W
1-216-049-00	s	RES, CHIP 1k 5% 1/10W
1-216-051-00	s	RES, CHIP 1.2k 5% 1/10W
1-216-053-00	s	RES, CHIP 1.5k 5% 1/10W
1-216-055-00	s	RES, CHIP 1.8k 5% 1/10W
1-216-057-00	s	RES, CHIP 2.2k 5% 1/10W
1-216-059-00	s	RES, CHIP 2.7k 5% 1/10W
1-216-061-00	s	RES, CHIP 3.3k 5% 1/10W
1-216-063-00	s	RES, CHIP 3.9k 5% 1/10W
1-216-065-00	s	RES, CHIP 4.7k 5% 1/10W
1-216-067-00	s	RES, CHIP 5.6k 5% 1/10W
1-216-069-00	s	RES, CHIP 6.8k 5% 1/10W
1-216-071-00	s	RES, CHIP 8.2k 5% 1/10W
1-216-073-00	s	RES, CHIP 10k 5% 1/10W
1-216-075-00	s	RES, CHIP 12k 5% 1/10W
1-216-077-00	s	RES, CHIP 15k 5% 1/10W
1-216-079-00	s	RES, CHIP 18k 5% 1/10W
1-216-081-00	s	RES, CHIP 22k 5% 1/10W
1-216-083-00	s	RES, CHIP 27k 5% 1/10W
1-216-085-00	s	RES, CHIP 33k 5% 1/10W
1-216-087-00	s	RES, CHIP 39k 5% 1/10W
1-216-089-00	s	RES, CHIP 47k 5% 1/10W
1-216-091-00	s	RES, CHIP 56k 5% 1/10W

Part No.	SP	Description
1-216-093-00	s	RES, CHIP 68k 5% 1/10W
1-216-095-00	s	RES, CHIP 82k 5% 1/10W
1-216-097-00	s	RES, CHIP 100k 5% 1/10W
1-216-099-00	s	RES, CHIP 120k 5% 1/10W
1-216-101-00	s	RES, CHIP 150k 5% 1/10W
1-216-103-00	s	RES, CHIP 180k 5% 1/10W
1-216-105-00	s	RES, CHIP 220k 5% 1/10W
1-216-107-00	s	RES, CHIP 270k 5% 1/10W
1-216-109-00	s	RES, CHIP 330k 5% 1/10W
1-216-111-00	s	RES, CHIP 390k 5% 1/10W
1-216-113-00	s	RES, CHIP 470k 5% 1/10W
1-216-115-00	s	RES, CHIP 560k 5% 1/10W
1-216-117-00	s	RES, CHIP 680k 5% 1/10W
1-216-119-00	s	RES, CHIP 820k 5% 1/10W
1-216-121-00	s	RES, CHIP 1.0M 5% 1/10W
1-216-123-00	s	RES, CHIP 1.2M 5% 1/10W
1-216-125-00	s	RES, CHIP 1.5M 5% 1/10W
1-216-127-00	s	RES, CHIP 1.8M 5% 1/10W
1-216-129-00	s	RES, CHIP 2.2M 5% 1/10W
1-216-131-00	s	RES, CHIP 2.7M 5% 1/10W
1-216-133-00	s	RES, CHIP 3.3M 5% 1/10W

CONNECTOR

Part No.	SP	Description	
1-564-001-11	o	RECEPTACLE	2P MALE (STRAIGHT TYPE)
1-564-012-11	o	RECEPTACLE	2P MALE (ANGLE TYPE)
1-562-147-11	o	HOUSING	2P
1-564-026-21	o	CONTACT	AWG24-30
1-564-681-21	o	CONTACT	AWG32
1-564-002-11	o	RECEPTACLE	3P MALE (STRAIGHT TYPE)
1-564-013-11	o	RECEPTACLE	3P MALE (ANGLE TYPE)
1-562-148-11	o	HOUSING	3P
1-564-026-21	o	CONTACT	AWG24-30
1-564-681-21	o	CONTACT	AWG32
1-564-003-11	o	RECEPTACLE	4P MALE (STRAIGHT TYPE)
1-564-014-11	o	RECEPTACLE	4P MALE (ANGLE TYPE)
1-562-149-11	o	HOUSING	4P
1-564-026-21	o	CONTACT	AWG24-30
1-564-681-21	o	CONTACT	AWG32
1-564-004-11	o	RECEPTACLE	5P MALE (STRAIGHT TYPE)
1-564-015-11	o	RECEPTACLE	5P MALE (ANGLE TYPE)
1-562-150-11	o	HOUSING	5P
1-564-026-21	o	CONTACT	AWG24-30
1-564-681-21	o	CONTACT	AWG32
1-564-005-11	o	RECEPTACLE	6P MALE (STRAIGHT TYPE)
1-564-016-11	o	RECEPTACLE	6P MALE (ANGLE TYPE)
1-562-151-11	o	HOUSING	6P
1-564-026-21	o	CONTACT	AWG24-30
1-564-681-21	o	CONTACT	AWG32
1-564-006-11	o	RECEPTACLE	7P MALE (STRAIGHT TYPE)
1-564-017-11	o	RECEPTACLE	7P MALE (ANGLE TYPE)
1-562-152-11	o	HOUSING	7P
1-564-026-21	o	CONTACT	AWG24-30
1-564-681-21	o	CONTACT	AWG32
1-564-007-11	o	RECEPTACLE	8P MALE (STRAIGHT TYPE)
1-564-018-11	o	RECEPTACLE	8P MALE (ANGLE TYPE)
1-562-153-11	o	HOUSING	8P
1-564-026-21	o	CONTACT	AWG24-30
1-564-681-21	o	CONTACT	AWG32
1-564-008-41	o	RECEPTACLE	9P MALE (STRAIGHT TYPE)
1-564-019-11	o	RECEPTACLE	9P MALE (ANGLE TYPE)
1-562-154-11	o	HOUSING	9P
1-564-026-21	o	CONTACT	AWG24-30
1-564-681-21	o	CONTACT	AWG32
1-564-009-11	o	RECEPTACLE	10P MALE (STRAIGHT TYPE)
1-564-020-11	o	RECEPTACLE	10P MALE (ANGLE TYPE)
1-562-155-11	o	HOUSING	10P
1-564-026-21	o	CONTACT	AWG24-30
1-564-681-21	o	CONTACT	AWG32
1-564-010-21	o	RECEPTACLE	11P MALE (STRAIGHT TYPE)
1-564-021-11	o	RECEPTACLE	11P MALE (ANGLE TYPE)
1-562-156-11	o	HOUSING	11P
1-564-026-21	o	CONTACT	AWG24-30
1-564-681-21	o	CONTACT	AWG32
1-564-011-11	o	RECEPTACLE	12P MALE (STRAIGHT TYPE)
1-564-022-11	o	RECEPTACLE	12P MALE (ANGLE TYPE)
1-562-157-11	o	HOUSING	12P
1-564-026-21	o	CONTACT	AWG24-30
1-564-681-21	o	CONTACT	AWG32

Part No.	SP	Description	
1-564-683-11	o	RECEPTACLE	13P MALE (STRAIGHT TYPE)
1-564-743-11	o	RECEPTACLE	13P MALE (ANGLE TYPE)
1-562-627-11	o	HOUSING	13P
1-564-026-21	o	CONTACT	AWG24-30
1-564-681-21	o	CONTACT	AWG32
1-564-069-11	o	RECEPTACLE	14P MALE (STRAIGHT TYPE)
1-564-630-11	o	RECEPTACLE	14P MALE (ANGLE TYPE)
1-562-185-11	o	HOUSING	14P
1-564-026-21	o	CONTACT	AWG24-30
1-564-681-21	o	CONTACT	AWG32
1-564-855-11	o	RECEPTACLE	15P MALE (STRAIGHT TYPE)
1-564-877-11	o	RECEPTACLE	15P MALE (ANGLE TYPE)
1-562-958-11	o	HOUSING	15P
1-564-026-21	o	CONTACT	AWG24-30
1-564-681-21	o	CONTACT	AWG32



Ref No.	Parts No.	SP	Description
AC-65 BOARD			
	1-618-591-11	o	PRINTED CIRCUIT BOARD, AC-65
	1-533-189-11	o	HOLDER, FUSE
⚠CN1	1-506-371-00	o	2P PLUG (L)
⚠F1	1-532-743-11	s	FUSE, GLASS TUBE 2.0A
AU-82 BOARD			
	A-6713-277-A	o	MOUNTED CIRCUIT BOARD, AU-82
C5	1-124-499-11	s	ELECT 1 20% 50V
C8	1-124-499-11	s	ELECT 1 20% 50V
C14	1-162-199-31	s	CERAMIC 10PF 5% 50V
C21	1-130-471-00	s	MYLAR 0.001 5% 50V
C54	1-124-903-00	s	ELECT 1 20% 50V
C101	1-123-055-61	s	ELECT 47 20% 16V
C102	1-162-286-31	s	CERAMIC 220PF 10% 50V
C151	1-109-621-00	s	MICA 220PF 5% 500V
C152	1-162-290-31	s	CERAMIC 470PF 10% 50V
C162	1-162-219-31	s	CERAMIC 68PF 5% 50V
C212	1-162-199-31	s	CERAMIC 10PF 5% 50V
C254	1-124-499-11	s	ELECT 1 20% 50V
C301	1-123-055-61	s	ELECT 47 20% 16V
C304	1-162-286-31	s	CERAMIC 220PF 10% 50V
C351	1-109-621-00	s	MICA 220PF 5% 500V
C352	1-162-290-31	s	CERAMIC 470PF 10% 50V
C361	1-162-219-31	s	CERAMIC 68PF 5% 50V
C605	1-109-677-31	s	MICA 150PF 5% 500V
C606	1-109-677-31	s	MICA 150PF 5% 500V
C611	1-109-568-11		MICA 300PF 5% 500V
C612	1-109-576-00	s	MICA 620PF 5% 500V
C613	1-129-703-00	s	FILM 0.0012 10% 630V
C615	1-129-704-00	s	FILM 0.0015 10% 630V
CP601	1-464-805-11	s	OSCILLATION UNIT, BIAS
D1	8-719-911-19	s	1SS119
D2	8-719-911-19	s	1SS119
D3	8-719-911-19	s	1SS119
D4	8-719-911-19	s	1SS119
D5	8-719-911-19	s	1SS119
D7	8-719-109-91	s	RD6.2ES-B
D8	8-719-109-91	s	RD6.2ES-B
D9	8-719-911-19	s	1SS119
D10	8-719-911-19	s	1SS119
D51	8-719-911-19	s	1SS119
D52	8-719-911-19	s	1SS119
D53	8-719-911-19	s	1SS119
D101	8-719-911-19	s	1SS119
D102	8-719-911-19	s	1SS119
D103	8-719-911-19	s	1SS119
D104	8-719-109-91	s	RD6.2ES-B
D151	8-719-109-91	s	RD6.2ES-B
D201	8-719-911-19	s	1SS119
D202	8-719-911-19	s	1SS119
D204	8-719-109-01	s	RD6.2ES-B
D205	8-719-911-19	s	1SS119
D206	8-719-911-19	s	1SS119
D251	8-719-911-19	s	1SS119
D301	8-719-911-19	s	1SS119
D302	8-719-911-19	s	1SS119
D303	8-719-911-19	s	1SS119
D351	8-719-109-91	s	RD6.2ES-B
D401	8-719-109-91	s	RD6.2ES-B
D451	8-719-109-91	s	RD6.2ES-B
D452	8-719-911-19	s	1SS119
D501	8-719-109-91	s	RD6.2ES-B
D502	8-719-911-19	s	1SS119
D503	8-719-200-77	s	10E2N
D504	8-719-911-19	s	1SS119
D505	8-719-911-19	s	1SS119
D506	8-719-911-19	s	1SS119
D507	8-719-100-01	s	RD2.0E-B
D601	8-719-109-64	s	RD3.3ES-B
D602	8-719-200-77	s	10E2N
D603	8-719-200-77	s	10E2N
IC1	8-759-705-62	s	NJM4562D-D (JRC)
IC2	8-759-208-10	s	TC4053BPHB (TOSHIBA)
IC3	8-759-705-62	s	NJM4562D-D (JRC)
IC51	8-759-802-46	s	LA4550 (SANYO)
IC101	8-759-700-04	s	NJM2043D-D (JRC)
IC102	8-759-705-62	s	NJM4562D-D (JRC)
IC151	8-759-705-58	s	NJM4558D-D (TOSHIBA)
IC202	8-759-208-10	s	TC4053BPHB (JRC)
IC351	8-759-705-58	s	NJM4558D-D (JRC)
IC401	8-759-240-11	s	TC4011BP (TOSHIBA)
L1	1-407-519-00	s	8uH
L201	1-407-519-00	s	8uH
LV101	1-459-434-00	s	VAR 22mH
LV151	1-459-434-00	s	VAR 22mH
LV152	1-459-434-00	s	VAR 22mH
LV301	1-459-434-00	s	VAR 22mH
LV302	1-459-434-00	s	VAR 22mH
LV351	1-459-434-00	s	VAR 22mH
LV352	1-459-434-00	s	VAR 22mH
LV601	1-407-283-00	s	VAR 0.68mH
LV602	1-410-859-11	s	VAR 240uH

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Ref No.	Parts No.	SP	Description
Q1	8-729-178-55	s	2SC2785-E
Q2	8-729-115-10	s	2SK105A-10
Q3	8-729-178-55	s	2SC2785-E
Q4	8-729-178-55	s	2SC2785-E
Q5	8-729-178-55	s	2SC2785-E
Q6	8-729-178-55	s	2SC2785-E
Q7	8-729-201-05	s	2SC2878-B
Q8	8-729-178-55	s	2SC2785-E
Q51	8-729-201-05	s	2SC2878-B
Q52	8-729-178-55	s	2SC2785-E
Q53	8-729-178-55	s	2SC2785-E
Q54	8-729-201-05	s	2SC2878-B
Q55	8-729-201-05	s	2SC2878-B
Q101	8-729-178-55	s	2SC2785-E
Q102	8-729-178-55	s	2SC2785-E
Q103	8-729-117-54	s	2SA1175-K
Q105	8-729-201-05	s	2SC2878-B
Q106	8-729-201-05	s	2SC2878-B
Q151	8-729-2-1-05	s	2SC2878-B
Q152	8-729-178-55	s	2SC2785-E
Q153	8-729-178-55	s	2SC2785-E
Q154	8-729-201-05	s	2SC2878-B
Q201	8-729-178-55	s	2SC2785-E
Q202	8-729-178-55	s	2SC2785-E
Q203	8-729-178-55	s	2SC2785-E
Q204	8-729-178-55	s	2SC2785-E
Q206	8-729-201-05	s	2SC2878-B
Q207	8-729-178-55	s	2SC2785-E
Q208	8-729-178-55	s	2SC2785-E
Q251	8-729-201-05	s	2SC2878-B
Q252	8-729-178-55	s	2SC2785-E
Q301	8-729-178-55	s	2SC2785-E
Q302	8-729-178-55	s	2SC2785-E
Q303	8-729-117-54	s	2SA1175-K
Q304	8-729-201-05	s	2SC2878-B
Q305	8-729-178-55	s	2SC2785-E
Q306	8-729-201-05	s	2SC2878-B
Q351	8-729-201-05	s	2SC2878-B
Q352	8-729-178-55	s	2SC278-E
Q353	8-729-178-55	s	2SC278-E
Q354	8-729-201-05	s	2SC2878-B
Q401	8-729-178-55	s	2SC2785-E
Q402	8-729-117-54	s	2SA1175-K
Q403	8-729-117-54	s	2SA1175-K
Q451	8-729-178-55	s	2SC2785-E
Q452	8-729-117-54	s	2SA1175-K
Q453	8-729-117-54	s	2SA1175-K
Q501	8-729-178-55	s	2SC2785-E
Q502	8-729-113-33	s	2SB733-4
Q503	8-729-117-56	s	2SA1175-K
Q601	8-729-201-05	s	2SC2878-B
Q602	8-729-117-54	s	2SA1175-K
Q603	8-729-177-33	s	2SD773-4
Q604	8-729-178-55	s	2SC2785-E
Q605	8-729-900-65	s	DTA144ES
Q606	8-729-201-05	s	2SC2878-B
Q607	8-729-117-54	s	2SA1175-K
Q608	8-729-177-33	s	2SD773-4

Ref No.	Parts No.	SP	Description
R8	1-247-883-00	s	CARBON 150k 5% 1/4W
R19	1-247-887-00	s	CARBON 220k 5% 1/4W
R40	1-247-891-00	s	CARBON 330k 5% 1/4W
R104	1-247-849-00	s	CARBON 5.6k 5% 1/4W
R109	1-247-849-00	s	CARBON 5.6k 5% 1/4W
R177	1-247-887-00	s	CARBON 220k 5% 1/4W
R124	1-247-881-00	s	CARBON 120k 5% 1/4W
R126	1-247-881-00	s	CARBON 120k 5% 1/4W
R159	1-247-883-00	s	CARBON 150k 5% 1/4W
R204	1-247-891-00	s	CARBON 330k 5% 1/4W
R216	1-247-887-00	s	CARBON 220k 5% 1/4W
R236	1-247-883-00	s	CARBON 150k 5% 1/4W
R304	1-247-849-00	s	CARBON 5.6k 5% 1/4W
R309	1-247-849-00	s	CARBON 5.6k 5% 1/4W
R321	1-247-887-00	s	CARBON 220k 5% 1/4W
R327	1-247-881-00	s	CARBON 120k 5% 1/4W
R329	1-247-881-00	s	CARBON 120k 5% 1/4W
R359	1-247-883-00	s	CARBON 150k 5% 1/4W
R507	1-247-885-00	s	CARBON 180k 5% 1/4W
RV1	1-228-996-00	s	VAR, CARBON 47k
RV51	1-228-990-00	s	VAR, CARBON 1k
RV101	1-228-994-00	s	VAR, CARBON 10k
RV102	1-228-994-00	s	VAR, CARBON 10k
RV103	1-228-993-00	s	VAR, CARBON 4.7k
RV151	1-228-993-00	s	VAR, CARBON 4.7k
RV152	1-228-993-00	s	VAR, CARBON 4.7k
RV201	1-228-996-00	s	VAR, CARBON 47k
RV251	1-228-990-00	s	VAR, CARBON 1k
RV301	1-228-994-00	s	VAR, CARBON 10k
RV302	1-228-994-00	s	VAR, CARBON 10k
RV303	1-228-994-00	s	VAR, CARBON 10k
RV304	1-228-993-00	s	VAR, CARBON 4.7k
RV351	1-228-993-00	s	VAR, CARBON 4.7k
RV352	1-228-993-00	s	VAR, CARBON 4.7k
RV601	1-228-997-00	s	VAR, CARBON 100k
RV602	1-228-997-00	s	VAR, CARBON 100k
RV603	1-228-995-00	s	VAR, CARBON 22k
RV604	1-228-994-00	s	VAR, CARBON 10k
RY601	1-515-614-11	s	RELAY 12V 16.6A

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AU-89 BOARD

Ref No.	Parts No.	SP	Description			
	A-6713-278-A	o	MOUNTED CIRCUIT BOARD, AU-89			
C3	1-136-230-00	s	FILM	0.0022	3%	100V
C4	1-136-230-00	s	FILM	0.0022	3%	100V
C5	1-136-257-00	s	FILM	0.0039	3%	100V
C6	1-131-345-00	s	TANTALUM	0.47	10%	35V
C9	1-136-165-00	s	MYLAR	0.1	10%	50V
C10	1-136-169-00	s	MYLAR	0.22	10%	50V
C11	1-136-163-00	s	MYLAR	0.068	10%	50V
C13	1-130-339-00	s	FILM	0.0056	3%	100V
C16	1-136-165-00	s	MYLAR	0.1	10%	50V
C20	1-136-159-00	s	MYLAR	0.033	10%	50V
C21	1-130-519-00	s	MYLAR	0.018	10%	50V
C22	1-130-519-00	s	MYLAR	0.018	10%	50V
C103	1-136-230-00	s	FILM	0.0022	3%	100V
C104	1-136-230-00	s	FILM	0.0022	3%	100V
C105	1-136-257-00	s	FILM	0.0039	3%	100V
C106	1-131-345-00	s	TANTALUM	0.47	10%	35V
C109	1-136-165-00	s	MYLAR	0.1	10%	50V
C110	1-136-169-00	s	MYLAR	0.22	10%	50V
C111	1-136-163-00	s	MYLAR	0.068	10%	50V
C113	1-130-339-00	s	FILM	0.0056	3%	100V
C116	1-136-165-00	s	MYLAR	0.1	10%	50V
C120	1-136-159-00	s	MYLAR	0.033	10%	50V
C121	1-130-519-00	s	MYLAR	0.018	10%	50V
C122	1-130-519-00	s	MYLAR	0.018	10%	50V
C201	1-131-372-00	s	TANTALUM	15	10%	16V
C202	1-131-363-00	s	TANTALUM	4.7	10%	16V
C203	1-136-164-00	s	MYLAR	0.082	10%	50V
C204	1-131-372-00	s	TANTALUM	15	10%	16V
C205	1-131-363-00	s	TANTALUM	4.7	10%	16V
C206	1-136-153-00	s	MYLAR	0.01	10%	50V
C207	1-136-164-00	s	MYLAR	0.082	10%	50V
C214	1-124-499-11	s	ELECT	1	20%	50V
C301	1-131-404-00	s	ELECT (SOLID)	0.22	10%	25V
C303	1-131-372-00	s	TANTALUM	15	10%	16V
C306	1-131-372-00	s	TANTALUM	15	10%	16V
C307	1-124-245-00	s	ELECT	4.7	20%	16V
C308	1-136-164-00	s	MYLAR	0.082	10%	50V
C309	1-136-164-00	s	MYLAR	0.082	10%	50V
C310	1-136-168-00	s	MYLAR	0.18	10%	50V
C311	1-136-168-00	s	MYLAR	0.18	10%	50V
C312	1-136-168-00	s	MYLAR	0.18	10%	50V
C313	1-136-168-00	s	MYLAR	0.18	10%	50V
C314	1-130-519-00	s	MYLAR	0.018	10%	50V
C315	1-130-519-00	s	MYLAR	0.018	10%	50V
C316	1-136-153-00	s	MYLAR	0.01	10%	50V
C317	1-136-153-00	s	MYLAR	0.01	10%	50V
C318	1-124-236-00	s	ELECT	47	20%	16V
C319	1-124-236-00	s	ELECT	47	20%	16V
C320	1-124-236-00	s	ELECT	47	20%	16V
C321	1-124-236-00	s	ELECT	47	20%	16V
C322	1-124-236-00	s	ELECT	47	20%	16V
C323	1-124-236-00	s	ELECT	47	20%	16V
C324	1-124-236-00	s	ELECT	47	20%	16V
C325	1-124-236-00	s	ELECT	47	20%	16V
C326	1-124-236-00	s	ELECT	47	20%	16V

Ref No.	Parts No.	SP	Description			
C327	1-124-236-00	s	ELECT	47	20%	16V
C328	1-124-236-00	s	ELECT	47	20%	16V
C329	1-124-236-00	s	ELECT	47	20%	16V
C330	1-124-236-00	s	ELECT	47	20%	16V
C331	1-124-236-00	s	ELECT	47	20%	16V
C332	1-124-236-00	s	ELECT	47	20%	16V
C333	1-124-236-00	s	ELECT	47	20%	16V
C334	1-124-236-00	s	ELECT	47	20%	16V
C335	1-124-236-00	s	ELECT	47	20%	16V
C336	1-124-236-00	s	ELECT	47	20%	16V
C337	1-124-236-00	s	ELECT	47	20%	16V
C338	1-124-462-00	s	ELECT	10	20%	16V
C339	1-124-234-00	s	ELECT	22	20%	16V
C340	1-124-462-00	s	ELECT	10	20%	16V
C341	1-124-234-00	s	ELECT	22	20%	16V
C342	1-124-234-00	s	ELECT	22	20%	16V
C343	1-124-462-00	s	ELECT	10	20%	16V
C344	1-124-234-00	s	ELECT	22	20%	16V
C345	1-124-462-00	s	ELECT	10	20%	16V
C350	1-124-462-00	s	ELECT	10	20%	16V
C352	1-136-153-00	s	MYLAR	0.01	10%	50V
CN252	1-506-821-11	o	HOUSING, BOARD IN CONNECTOR 12P			
CN251	1-562-739-11	o	HOUSING, CONNECTOR 6P			
CN253	1-506-821-11	o	HOUSING, BOARD IN CONNECTOR 12P			
	1-563-186-11	o	HOUSING, CONNECTOR 12P			
CP1	1-236-010-11	s	FILTER, LOW PASS			
CP101	1-236-010-11	s	FILTER, LOW PASS			
D1	8-719-911-19	s	1SS119			
D2	8-719-911-19	s	1SS119			
D3	8-719-911-19	s	1SS119			
D4	8-719-911-19	s	1SS119			
D101	8-719-911-19	s	1SS119			
D102	8-719-911-19	s	1SS119			
D103	8-719-911-19	s	1SS119			
D104	8-719-911-19	s	1SS119			
D201	8-719-109-91	s	RD6.2ESB			
D202	8-719-911-10	s	1SS119			
D203	8-719-911-19	s	1SS119			
D301	8-719-911-19	s	1SS119			
D302	8-719-911-19	s	1SS119			
D303	8-719-911-19	s	1SS119			
D304	8-719-911-19	s	1SS119			
D305	8-719-911-19	s	1SS119			
D306	8-719-911-19	s	1SS119			
D307	8-719-109-91	s	RD6.2ESB			
IC1	8-752-018-80	s	CX20188 (SONY)			
IC2	8-759-705-58	s	NUM5448D-D (JRC)			
IC3	8-759-208-12	s	TC4016BPHB (TOSHIBA)			
IC102	8-759-705-58	s	NJM4558D-D (JRC)			
IC103	8-759-208-12	s	TC4016BPHB (TOSHIBA)			

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref No.	Parts No.	SP	Description
IC201	8-759-205-76	s	TC504013BP (TOSHIBA)
IC202	8-759-705-58	s	NJM4558D-D (JRC)
IC203	8-759-240-71	s	TC4071BP (TOSHIBA)
IC204	8-759-240-11	s	TC4011BP (TOSHIBA)
IC205	8-759-240-11	s	TC4011BP (TOSHIBA)
IC301	8-759-132-40	s	UPC324C (NEC)
IC302	8-759-132-40	s	UPC324C (NEC)
IC303	8-759-969-13	s	SN16913P (TI)
IC304	8-759-969-13	s	SN16913P (TI)
IC305	8-759-969-13	s	SN16913P (TI)
IC306	8-759-969-13	s	SN16913P (TI)
Q1	8-729-900-89	s	DTC144ES
Q101	8-729-900-89	s	DTC144ES
Q201	8-729-900-89	s	DTC144ES
Q202	8-729-178-55	s	2SC2785-E
Q203	8-729-178-55	s	2SC2785-E
Q204	8-729-178-55	s	2SC2785-E
Q205	8-729-201-05	s	2SC2878-B
Q206	8-729-900-65	s	DTA144ES
Q207	8-729-201-05	s	2SC2878-B
Q208	8-729-900-65	s	DTA144ES
Q301	8-729-900-89	s	DTC144ES
Q302	8-729-900-89	s	DTC144ES
Q303	8-729-900-89	s	DTC144ES
Q304	8-729-900-89	s	DTC144ES
Q305	8-729-900-89	s	DTC144ES
Q306	8-729-117-54	s	2SA1175-K
Q307	8-729-117-54	s	2SA1175-K
Q308	8-729-117-54	s	2SA1175-K
Q309	8-729-117-54	s	2SA1175-K
R8	1-247-849-00	s	CARBON 5.6k 5% 1/4W
R29	1-247-895-00	s	CARBON 470k 5% 1/4W
R30	1-247-883-00	s	CARBON 150k 5% 1/4W
R108	1-247-849-00	s	CARBON 5.6k 5% 1/4W
R129	1-247-895-00	s	CARBON 470k 5% 1/4W
R130	1-247-883-00	s	CARBON 150k 5% 1/4W
R209	1-247-849-00	s	CARBON 5.6k 5% 1/4W
R231	1-247-887-00	s	CARBON 220k 5% 1/4W
R301	1-247-849-00	s	CARBON 5.6k 5% 1/4W
R318	1-247-885-00	s	CARBON 180k 5% 1/4W
R319	1-247-885-00	s	CARBON 180k 5% 1/4W
R322	1-247-895-00	s	CARBON 470k 5% 1/4W
R323	1-247-895-00	s	CARBON 470k 5% 1/4W
R324	1-247-849-00	s	CARBON 5.6k 5% 1/4W
R325	1-247-849-00	s	CARBON 5.6k 5% 1/4W
R326	1-247-849-00	s	CARBON 5.6k 5% 1/4W
R327	1-247-849-00	s	CARBON 5.6k 5% 1/4W
R330	1-247-849-00	s	CARBON 5.6k 5% 1/4W
R331	1-247-849-00	s	CARBON 5.6k 5% 1/4W
R332	1-247-849-00	s	CARBON 5.6k 5% 1/4W
R333	1-247-849-00	s	CARBON 5.6k 5% 1/4W
R338	1-247-869-00	s	CARBON 39k 5% 1/4W
R339	1-247-881-00	s	CARBON 120k 5% 1/4W
R340	1-247-849-00	s	CARBON 5.6k 5% 1/4W
R343	1-247-887-00	s	CARBON 220k 5% 1/4W

Ref No.	Parts No.	SP	Description
RV11	1-230-722-11	s	VAR, CARBON 22k
RV111	1-230-722-11	s	VAR, CARBON 22k
RV211	1-230-720-11	s	VAR, CARBON 4.7k
RV212	1-230-720-11	s	VAR, CARBON 4.7k
RV311	1-230-726-11	s	VAR, CARBON 470k
RV312	1-230-725-11	s	VAR, CARBON 220k
RV313	1-230-722-11	s	VAR, CARBON 22k
RV314	1-230-722-11	s	VAR, CARBON 22k
RV315	1-230-718-11	s	VAR, CARBON 1k
RV316	1-230-718-11	s	VAR, CARBON 1k
RV317	1-230-722-11	s	VAR, CARBON 22k

CC-31 BOARD

	1-622-255-11	o	PRINTED CIRCUIT BOARD, CC-31

CC-32 BOARD

	1-622-256-11	o	PRINTED CIRCUIT BOARD, CC-32
IC1	8-719-940-86	s	GP1L53 "CASSETTE IN DET"

CC-33 BOARD

	1-622-257-11	o	PRINTED CIRCUIT BOARD, CC-33
IC1	8-719-940-86	s	GP1L53 "CASSETTE DOWN DET"

CP-112 BOARD

	A-6713-279-A	o	MOUNTED CIRCUIT BOARD, CP-112
C7	1-162-207-31	s	CERAMIC 22PF 5% 50V
C12	1-162-207-31	s	CERAMIC 22PF 5% 50V
C14	1-130-497-00	s	MYLAR 0.15 5% 50V
IC1	8-759-802-47	s	IC LA4500 (SANYO)
Q1	8-729-201-05	s	2SC2878-B
Q2	8-729-201-05	s	2SC2878-B

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Ref No.	Parts No.	SP	Description
R1	1-247-849-00	s	CARBON 5.6k 5% 1/4W
R2	1-247-849-00	s	CARBON 5.6k 5% 1/4W
R5	1-247-849-00	s	CARBON 5.6k 5% 1/4W
R6	1-247-849-00	s	CARBON 5.6k 5% 1/4W
R17	1-247-775-00	s	CARBON 4.7 5% 1/4W
R18	1-247-775-00	s	CARBON 4.7 5% 1/4W
T1	1-423-261-11	s	INPUT
T2	1-423-261-11	s	INPUT
T3	1-427-586-11	s	INPUT/OUTPUT
T4	1-427-586-11	s	INPUT/OUTPUT

DC-31 BOARD

Ref No.	Parts No.	SP	Description
	1-622-221-11	o	PRINTED CIRCUIT BOARD, DC-31
	1-533-189-11	o	HOLDER, FUSE
	1-561-432-00	o	CONNECTOR CONTACT
	1-561-424-00	o	SOCKET, CONNECTOR 5P
C2	1-161-379-00	s	CERAMIC 0.01 20% 16V
CN005	1-562-738-11	o	HOUSING, CONNECTOR 5P
⚠ F1	1-532-745-11	s	FUSE, GLASS TUBE 3.15A 125V
F2	1-532-744-11	s	FUSE, GLASS TUBE 2.5A 125V
IC1	8-759-938-15	s	IC BA178M05

DUS-92 BOARD

Ref No.	Parts No.	SP	Description
	1-615-924-11	o	PRINTED CIRCUIT BOARD, DUS-92
H1003	8-825-578-21	s	ACE HEAD

DUS-147 BOARD

Ref No.	Parts No.	SP	Description
	1-622-261-11	o	PRINTED CIRCUIT BOARD, DUS-147

EC-28 BOARD

Ref No.	Parts No.	SP	Description
	1-622-223-11	o	PRINTED CIRCUIT BOARD, EC-28
H1002	8-825-513-20	s	CTL ERASE (EPP170-58)

HP-30 BOARD

Ref No.	Parts No.	SP	Description
	1-622-220-11	o	PRINTED CIRCUIT BOARD, HP-30
CN1013	1-507-854-00	s	JACK, LARGE TYPE "HEADPHONES"
RV1001	1-237-703-11	s	VAR, CARBON 2k/2k "HEADPHONES LEVEL"

IF-132 BOARD

Ref No.	Parts No.	SP	Description
	A-6717-450-A	o	MOUNTED CIRCUIT BOARD, IF-132
C2	1-161-021-11	s	CERAMIC 0.047 10% 25V
C4	1-161-021-11	s	CERAMIC 0.047 10% 25V
C6	1-162-290-31	s	CERAMIC 470PF 10% 50V
C7	1-161-013-00	s	CERAMIC 0.01 10% 25V
C9	1-162-290-31	s	CERAMIC 470PF 10% 50V
C10	1-162-290-31	s	CERAMIC 470PF 10% 50V
C12	1-161-013-00	s	CERAMIC 0.01 10% 25V
C13	1-161-013-00	s	CERAMIC 0.01 10% 25V
C14	1-161-013-00	s	CERAMIC 0.01 10% 25V
C15	1-162-211-31	s	CERAMIC 33PF 5% 50V
C16	1-162-211-31	s	CERAMIC 33PF 5% 50V
C17	1-161-043-00	s	CERAMIC 0.0022 10% 25V
C18	1-161-379-00	s	CERAMIC 0.01 30% 16V
C19	1-161-379-00	s	CERAMIC 0.01 30% 16V
C20	1-161-379-00	s	CERAMIC 0.01 30% 16V
C21	1-161-379-00	s	CERAMIC 0.01 30% 16V
C22	1-161-379-00	s	CERAMIC 0.01 30% 16V
C23	1-161-379-00	s	CERAMIC 0.01 30% 16V
C24	1-161-379-00	s	CERAMIC 0.01 30% 16V
C26	1-162-294-31	s	CERAMIC 0.001 10% 50V
CN1021	1-566-615-11	s	CONNECTOR, SQUARE 33P "REMOTE"
CN1022	1-562-900-11	s	JACK (SMALL TYPE) "RX DATA"
D1	8-719-911-19	s	1SS119
D2	8-719-911-19	s	1SS119
D3	8-719-911-19	s	1SS119
D4	8-719-911-19	s	1SS119
D5	8-719-911-19	s	1SS119

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Ref No.	Parts No.	SP	Description
D6	8-719-911-19	s	1SS119
D7	8-719-911-19	s	1SS119
D8	8-719-911-19	s	1SS119
D9	8-719-911-19	s	1SS119
D10	8-719-911-19	s	1SS119
D11	8-719-911-19	s	1SS119
D12	8-719-911-19	s	1SS119
D13	8-719-911-19	s	1SS119
D14	8-719-911-19	s	1SS119
D15	8-719-911-19	s	1SS119
D16	8-719-911-19	s	1SS119
D17	8-719-911-19	s	1SS119
D18	8-719-911-19	s	1SS119
D19	8-719-911-19	s	1SS119
D20	8-719-911-19	s	1SS119
D21	8-719-911-19	s	1SS119
D22	8-719-911-19	s	1SS119
IC1	8-759-600-61	s	M54529AP (MITSUBISHI)
IC2	8-759-600-61	s	M54529AP (MITSUBISHI)
IC3	8-759-600-61	s	M54529AP (MITSUBISHI)
IC4	8-759-600-61	s	M54529AP (MITSUBISHI)
IC5	8-759-345-38	s	HD14538BP (HITACHI)
IC6	8-759-207-73	s	TC4030BPHB (TOSHIBA)
IC7	8-759-240-69	s	TC4069UBP (TOSHIBA)
IC8	8-759-945-42	s	MB88505-548M (FUJITSU)
Q1	8-729-900-89	s	DTC144ES
Q2	8-729-900-89	s	DTC144ES
Q3	8-729-900-89	s	DTC144ES
Q4	8-729-900-89	s	DTC144ES
Q5	8-729-900-89	s	DTC144ES
R11	1-247-895-00	s	CARBON 470k 5% 1/4W
R37	1-247-887-00	s	CARBON 220k 5% 1/4W
R62	1-247-891-00	s	CARBON 330k 5% 1/4W
R73	1-247-887-00	s	CARBON 220k 5% 1/4W
X1	1-567-143-00	s	CERAMIC, 6MHz

Ref No.	Parts No.	SP	Description
KY-105 BOARD			
	A-6717-449-A	o	MOUNTED CIRCUIT BOARD, KY-105
BT1	1-528-227-11	o	BATTERY, LITHIUM (CR-2032)
C1	1-162-211-31	s	CERAMIC 33PF 5% 50V
C2	1-162-211-31	s	CERAMIC 33PF 5% 50V
C4	1-161-021-11	s	CERAMIC 0.047 10% 25V
C7	1-162-286-31	s	CERAMIC 220PF 10% 50V
C8	1-162-286-31	s	CERAMIC 220PF 10% 50V
C9	1-162-286-31	s	CERAMIC 220PF 10% 50V
C10	1-162-286-31	s	CERAMIC 220PF 10% 50V
C11	1-162-286-31	s	CERAMIC 220PF 10% 50V
C12	1-161-021-11	s	CERAMIC 0.047 10% 25V
C13	1-125-443-11	s	ELECT 0.047 5.5V
CP1	1-560-914-00	s	CONNECTOR POST 2P
CS1	1-561-724-00	s	CONNECTOR SOCKET 2P
D1	8-719-911-19	s	1SS119
D2	8-719-911-19	s	1SS119
D5	8-719-911-19	s	1SS119
D6	8-719-911-19	s	1SS119
D7	8-719-911-19	s	1SS119
D8	8-719-904-55	s	GL-5HD5
D10	8-719-911-19	s	1SS119
D11	8-719-802-11	s	TLUG154
D12	8-719-911-19	s	1SS119
D13	8-719-911-19	s	1SS119
D14	8-719-911-19	s	1SS119
D15	8-719-911-19	s	1SS119
D16	8-719-904-55	s	GL-5HD5
D17	8-719-911-19	s	1SS119
D18	8-719-904-55	s	GL-5HD5
D19	8-719-904-55	s	GL-5HD5
D20	8-719-911-19	s	1SS119
D21	8-719-904-55	s	GL-5HD5
D22	8-719-911-19	s	1SS119
D23	8-719-911-19	s	1SS119
D24	8-719-911-19	s	1SS119
D25	8-719-904-55	s	GL-5HD5
D26	8-719-911-19	s	1SS119
D27	8-719-802-11	s	TLUG154
D28	8-719-802-24	s	TLUY154
D29	8-719-802-24	s	TLUY154
D30	8-719-802-24	s	TLUY154
D31	8-719-802-11	s	TLUG154
D32	8-719-911-19	s	1SS119
D33	8-719-911-19	s	1SS119
D34	8-719-911-19	s	1SS119

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Ref No.	Parts No.	SP	Description
IC1	8-759-645-17	s	M54517P (MITSUBISHI)
IC2	8-759-945-40	s	MB88525-178M (FUJITSU)
IC3	8-759-240-42	s	TC4042BP (TOSHIBA)
L1	1-407-488-00	s	470uH
ND701	1-807-441-21	s	LED BLOCK
Q1	8-729-900-65	s	DTA144ES
Q2	8-729-900-65	s	DTA144ES
Q3	8-729-900-65	s	DTA144ES
Q4	8-729-900-65	s	DTA144ES
Q5	8-729-900-65	s	DTA144ES
Q6	8-729-900-65	s	DTA144ES
Q7	8-729-117-54	s	2SA1175
Q8	8-729-117-54	s	2SA1175
Q9	8-729-117-54	s	2SA1175
Q10	8-729-117-54	s	2SA1175
Q11	8-729-117-54	s	2SA1175
Q13	8-729-117-54	s	2SA1175
Q14	8-729-117-54	s	2SA1175
Q16	8-729-900-65	s	DTA144ES
Q17	8-729-900-65	s	DTA144ES
Q18	8-729-900-65	s	DTA144ES
Q19	8-729-900-65	s	DTA144ES
Q20	8-729-900-65	s	DTA144ES
Q21	8-729-900-65	s	DTA144ES
Q22	8-729-900-65	s	DTA144ES
Q23	8-729-900-65	s	DTA144ES
Q24	8-729-900-65	s	DTA144ES
Q30	8-729-900-36	s	DTC124ES
R75	1-247-736-11	s	CARBON 56 5% 1/2W
S1	1-570-145-11	s	LEVER SLIDE "FRAME/CTL"
S2	1-553-739-21	s	KEY "RESET"
S4	1-553-739-21	s	KEY "MARK A"
S5	1-553-739-21	s	KEY "MARK B"
S6	1-552-539-00	s	KEY "SEARCH"
S7	1-516-995-00	s	LEVER SLIDE "PROGRAM OPERATION"
S8	1-552-539-00	s	KEY "PAUSE"
S9	1-552-539-00	s	KEY "DUB"
S10	1-552-539-00	s	KEY "FF"
S11	1-552-539-00	s	KEY "REC"
S12	1-552-539-00	s	KEY "PLAY"
S13	1-552-539-00	s	KEY "REW"
S14	1-552-539-00	s	KEY "EJECT"
S15	1-552-539-00	s	KEY "STOP"
S16	1-571-116-11	s	LEVER SLIDE "TBC"
S17	1-571-116-11	s	LEVER SLIDE "INPUT"
S18	1-516-298-00	s	LEVER SLIDE "AUDIO MONITOR"
S19	1-571-116-11	s	LEVER SLIDE "DOLBY NR"
X1	1-567-143-00	s	CERAMIC, 6MHz

Ref No.	Parts No.	SP	Description
LM-13 BOARD			
	1-618-600-11	o	PRINTED CIRCUIT BOARD, LM-13
C1	1-130-471-00	s	PE TEREPHTHALATE 0.001 5% 50V
C2	1-130-471-00	s	PE TEREPHTHALATE 0.001 5% 50V
M1003	1-541-376-11	s	DC (DNR-4700A) "THREADING"
LP-41 BOARD			
	1-623-101-11	o	PRINTED CIRCUIT BOARD, LP-41
D1	8-719-800-89	s	TLY255
D2	8-719-800-89	s	TLY255
D3	8-719-800-89	s	TLY255
R1	1-247-706-11	s	CARBON 330 5% 1/4W
R2	1-247-706-11	s	CARBON 330 5% 1/4W
R3	1-247-706-11	s	CARBON 330 5% 1/4W
MC-28 BOARD			
	1-622-222-11	o	PRINTED CIRCUIT BOARD, MC-28
C1	1-167-379-00	s	CERAMIC 10000PF
C2	1-167-379-00	s	CERAMIC 10000PF
CN1019	1-563-988-11	s	JACK, LARGE TYPE 2P "MICROPHONES CH-1"
CN1020	1-563-988-11	s	JACK, LARGE TYPE 2P "MICROPHONES CH-2"

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref No.	Parts No.	SP	Description
MT-29 BOARD			
	1-622-219-11	o	PRINTED CIRCUIT BOARD, MT-29
D1	8-719-812-32	s	TLY123
D2	8-719-812-32	s	TLY123
D3	8-719-812-32	s	TLY123
D4	8-719-812-32	s	TLY123
D5	8-719-812-32	s	TLY123
D6	8-719-812-32	s	TLY123
RV1002	1-237-701-11	s	VAR, CARBON 5k "CH-1 REC"
RV1003	1-237-701-11	s	VAR, CARBON 5k "CH-2 REC"
RV1004	1-237-702-11	s	VAR, CARBON 100k "TRACKING"
S1003	1-553-003-00	s	LEVER SLIDE "AUDIO LIMITER"
PD-40 BOARD			
	A-6725-569-A	o	MOUNTED CIRCUIT BOARD, PD-40
D1	8-719-200-02	s	10E-2
D2	8-719-200-02	s	10E-2
D3	8-719-200-02	s	10E-2
D4	8-719-200-02	s	10E-2
D5	8-719-200-02	s	10E-2
D6	8-719-200-02	s	10E-2
D7	8-719-200-02	s	10E-2
D8	8-719-200-02	s	10E-2
D9	8-719-200-02	s	10E-2
D10	8-719-200-02	s	10E-2
D11	8-719-200-02	s	10E-2
D12	8-719-200-02	s	10E-2
D13	8-719-200-02	s	10E-2
Q1	8-729-811-11	s	2SD1111
Q2	8-729-178-55	s	2SC2785-E
Q3	8-729-889-40	s	2SD894
Q4	8-729-811-11	s	2SD1111
Q5	8-729-178-55	s	2SC2785-E
Q6	8-729-889-40	s	2SD894
Q7	8-729-889-40	s	2SD894
Q8	8-729-811-11	s	2SD1111
Q9	8-729-178-55	s	2SC2785-E
Q10	8-729-889-40	s	2SD894
Q11	8-729-811-11	s	2SD1111
Q12	8-729-178-55	s	2SC2785-E
Q13	8-729-178-55	s	2SC2785-E
Q14	8-729-889-40	s	2SD894

Ref No.	Parts No.	SP	Description
R6	1-532-685-00	s	LINK, IC
R12	1-532-685-00	s	LINK, IC
R19	1-532-685-00	s	LINK, IC
R25	1-532-685-00	s	LINK, IC
R30	1-532-685-00	s	LINK, IC
PD-41 BOARD			
	A-6725-570-A	o	MOUNTED CIRCUIT BOARD, PD-41
D1	8-719-200-02	s	10E-2
D2	8-719-200-02	s	10E-2
D3	8-719-200-02	s	10E-2
D4	8-719-200-02	s	10E-2
D5	8-719-200-02	s	10E-2
D6	8-719-200-02	s	10E-2
Q1	8-729-811-11	s	2SD1111
Q2	8-729-178-55	s	2SC2785-E
Q3	8-729-889-40	s	2SD894
Q4	8-729-811-11	s	2SD1111
Q5	8-729-178-55	s	2SC2785-E
Q6	8-729-889-40	s	2SD894
R6	1-532-685-00	s	LINK, IC
R12	1-532-685-00	s	LINK, IC
PH-5 BOARD			
	1-603-737-00	o	PRINTED CIRCUIT BOARD, PH-5
D1	8-719-951-04	s	BR5104S
Q1	8-729-810-22	s	SPS102
PT-9 BOARD			
	1-605-018-00	o	PRINTED CIRCUIT BOARD, PT-9
Q1	8-729-377-13	s	2SA771-Y

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref No.	Parts No.	SP	Description
PTC-30 BOARD			
	1-622-260-11	o	PRINTED CIRCUIT BOARD, PTC-30
IC1	8-719-939-50	s	GP1L52
IC3	8-719-939-50	s	GP1L52
PTC-33 BOARD			
	1-622-258-11	o	PRINTED CIRCUIT BOARD, PTC-33
IC1	8-719-940-86	s	GP1L53 "THREAD END DET"
IC2	8-719-940-86	s	GP1L53 "UNTHREAD END DET"
PTC-34 BOARD			
	1-622-259-11	o	PRINTED CIRCUIT BOARD, PTC-34
IC1	8-719-940-86	s	GP1L53 "FR UNTHREAD END DET"
PTC-35 BOARD			
	1-622-218-11	o	PRINTED CIRCUIT BOARD, PTC-35
IC1A	8-719-940-86	s	GP1L53 "TAKE-UP ROTATION DET"
IC1B	8-719-940-86	s	GP1L53 "SUPPLY ROTATION DET"
RM-39 BOARD			
	1-618-873-11	o	PRINTED CIRCUIT BOARD, RM-39
C1	1-101-006-00	s	CERAMIC 0.047 50V
C2	1-101-006-00	s	CERAMIC 0.047 50V
L1	1-410-623-11	s	4.7uH
L2	1-410-623-11	s	4.7uH
M1006	8-835-178-01	s	DC FN30-T26N1E "REEL"

Ref No.	Parts No.	SP	Description
RP-31 BOARD			
	A-6711-819-A	o	MOUNTED CIRCUIT BOARD, RP-31
C2	1-124-236-00	s	ELECT 47 20% 16V
C3	1-161-021-00	s	CERAMIC 0.047 10% 25V
C4	1-161-021-11	s	CERAMIC 0.047 10% 25V
C7	1-161-021-11	s	CERAMIC 0.047 10% 25V
C8	1-161-021-11	s	CERAMIC 0.047 10% 25V
C9	1-124-236-00	s	ELECT 47 20% 16V
C10	1-161-021-11	s	CERAMIC 0.047 10% 25V
C11	1-124-236-00	s	ELECT 47 20% 16V
C14	1-124-255-00	s	ELECT 1 20% 50V
C15	1-161-021-11	s	CERAMIC 0.047 10% 25V
C16	1-161-021-11	s	CERAMIC 0.047 10% 25V
C17	1-124-236-00	s	ELECT 47 20% 16V
C20	1-124-255-00	s	ELECT 1 20% 50V
CN121	1-564-005-00	s	6P
CN122	1-564-002-00	s	3P
CN123	1-564-005-00	s	6P
CN124	1-564-005-00	s	6P
CP1	1-560-914-00	s	2P
CP2	1-560-914-00	s	2P
CS1	1-561-724-00	o	2P
CS2	1-561-724-00	o	2P
D1	8-719-911-19	s	1SS119
D2	8-719-911-19	s	1SS119
D3	8-719-100-03	s	RD2.7EB2
D4	8-719-911-19	s	1SS119
D5	8-719-911-19	s	1SS119
IC1	8-743-731-00	s	BX-373A (SONY)
IC2	8-729-677-14	s	2SC2771
IC3	8-741-126-50	s	BX-1265 (SONY)
IC4	8-759-240-09	s	TC4009UBP (TOSHIBA)
IC5	8-729-677-14	s	2SC2771
IC6	8-741-126-50	s	BX-1265 (SONY)
L1	1-410-482-31	s	100uH
L3	1-410-482-31	s	100uH
L4	1-410-482-31	s	100uH
Q1	8-729-201-05	s	2SC2878-B
Q2	8-729-201-05	s	2SC2878-B
Q3	8-729-600-24	s	2SC403-51
Q4	8-729-600-24	s	2SC403-51
Q5	8-729-600-24	s	2SC403-51
Q6	8-729-600-24	s	2SC403-51

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Ref No.	Parts No.	SP	Description
R2	1-249-404-00	s	CARBON 82 5% 1/4W
R9	1-215-394-00	s	CARBON 75 5% 1/4W
RV1	1-228-990-00	s	VAR, CARBON 1k
RV2	1-228-990-00	s	VAR, CARBON 1k
RV3	1-228-993-00	s	VAR, CARBON 4.7k
RV4	1-228-991-00	s	VAR, CARBON 2.2k
RV5	1-228-993-00	s	VAR, CARBON 4.7k
RV6	1-228-991-00	s	VAR, CARBON 2.2k
RV7	1-228-991-00	s	VAR, CARBON 2.2k
T1	1-426-017-00	s	AF
T2	1-427-472-00	s	OUTPUT
T3	1-426-319-11	s	PB RF
T4	1-427-472-00	s	OUTPUT
T5	1-426-319-00	s	PB RF

SE-46 BOARD

Ref No.	Parts No.	SP	Description
	1-618-599-11	o	PRINTED CIRCUIT BOARD, SE-46
PC1	1-806-232-21	s	DETECTOR MB-1102/S.N

SV-93 BOARD

Ref No.	Parts No.	SP	Description
	⚠A-6715-363-A	o	MOUNTED CIRCUIT BOARD, SV-93
C3	1-124-499-11	s	ELECT 1 20% 50V
C6	1-161-377-00	s	CERAMIC 0.0047 30% 16V
C7	1-161-374-11	s	CERAMIC 0.0015 30% 16V
C8	1-130-493-00	s	MYLAR 0.068 5% 50V
C10	1-131-350-00	s	TANTALUM 3.3 10% 35V
C12	1-162-299-21	s	CERAMIC 0.0068 30% 16V
C14	1-161-021-11	s	CERAMIC 0.047 10% 25V
C17	1-161-057-00	s	CERAMIC 0.033 10% 25V
C18	1-161-013-00	s	CERAMIC 0.01 10% 25V
C19	1-161-013-00	s	CERAMIC 0.01 10% 25V
C104	1-162-215-31	s	CERAMIC 47PF 5% 50V
C106	1-161-047-00	s	CERAMIC 0.0047 10% 25V
C111	1-161-042-00	s	CERAMIC 0.0018 10% 25V
C112	1-161-042-00	s	CERAMIC 0.0018 10% 25V
C116	1-162-286-31	s	CERAMIC 220PF 10% 50V
C120	1-162-288-31	s	CERAMIC 330PF 10% 50V
C203	1-162-211-31	s	CERAMIC 33PF 5% 50V
C204	1-162-211-31	s	CERAMIC 33PF 5% 50V
C301	1-161-013-00	s	CERAMIC 0.01 10% 25V
C302	1-161-040-00	s	CERAMIC 0.0012 10% 25V
C303	1-130-483-00	s	MYLAR 0.01 5% 50V
C306	1-162-286-31	s	CERAMIC 220PF 10% 50V
C307	1-162-288-31	s	CERAMIC 330PF 10% 50V
C308	1-161-013-00	s	CERAMIC 0.01 10% 25V
C309	1-161-013-00	s	CERAMIC 0.01 10% 25V
C312	1-124-499-11	s	ELECT 1 20% 50V
C409	1-161-379-00	s	CERAMIC 0.01 30% 16V
C410	1-161-379-00	s	CERAMIC 0.01 30% 16V
C411	1-162-207-31	s	CERAMIC 22PF 5% 50V
C412	1-162-282-31	s	CERAMIC 100PF 10% 50V
C413	1-162-284-31	s	CERAMIC 150PF 10% 50V
C418	1-162-282-31	s	CERAMIC 100PF 10% 50V
C422	1-124-464-11	s	ELECT 0.22 20% 50V
C423	1-162-289-31	s	CERAMIC 390PF 10% 50V
C430	1-124-463-00	s	ELECT 0.1 20% 50V
C433	1-124-499-11	s	ELECT 1 20% 50V
C507	1-162-282-31	s	CERAMIC 100PF 10% 50V
C702	1-161-379-00	s	CERAMIC 0.01 30% 16V
C703	1-161-379-00	s	CERAMIC 0.01 30% 16V
C704	1-161-379-00	s	CERAMIC 0.01 30% 16V
C705	1-161-379-00	s	CERAMIC 0.01 30% 16V
C709	1-161-379-00	s	CERAMIC 0.01 30% 16V
C710	1-161-379-00	s	CERAMIC 0.01 30% 16V
C711	1-161-379-00	s	CERAMIC 0.01 30% 16V
C712	1-161-379-00	s	CERAMIC 0.01 30% 16V
C714	1-161-379-00	s	CERAMIC 0.01 30% 16V
C716	1-161-379-00	s	CERAMIC 0.01 30% 16V
C718	1-161-379-00	s	CERAMIC 0.01 30% 16V
C719	1-161-039-00	s	CERAMIC 0.001 10% 25V
D1	8-719-911-19	s	1SS119
D2	8-719-911-19	s	1SS119
D3	8-719-911-19	s	1SS119
D5	8-719-911-19	s	1SS119
D7	8-719-911-55	s	U05G
D101	8-719-911-19	s	1SS119
D103	8-719-911-19	s	1SS119
D104	8-719-911-19	s	1SS119
D105	8-719-911-19	s	1SS119
D106	8-719-911-19	s	1SS119
D107	8-719-911-19	s	1SS119
D108	8-719-911-19	s	1SS119
D109	8-719-911-19	s	1SS119
D110	8-719-911-19	s	1SS119
D111	8-719-911-19	s	1SS119
D112	8-719-911-19	s	1SS119
D113	8-719-911-19	s	1SS119
D202	8-719-911-19	s	1SS119
D204	8-719-911-19	s	1SS119
D205	8-719-911-19	s	1SS119
D206	8-719-911-19	s	1SS119
D207	8-719-911-19	s	1SS119
D208	8-719-911-19	s	1SS119
D210	8-719-100-15	s	RD3.0E-B2
D211	8-719-911-19	s	1SS119

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Ref No.	Parts No.	SP	Description
D301	8-719-911-19	s	1SS119
D302	8-719-911-19	s	1SS119
D303	8-719-911-19	s	1SS119
D401	8-719-911-19	s	1SS119
D402	8-719-911-19	s	1SS119
D403	8-719-911-19	s	1SS119
D404	8-719-911-19	s	1SS119
D405	8-719-911-19	s	1SS119
D406	8-719-911-19	s	1SS119
D407	8-719-911-19	s	1SS119
D408	8-719-911-19	s	1SS119
D409	8-719-911-19	s	1SS119
D410	8-719-911-19	s	1SS119
D411	8-719-911-19	s	1SS119
D412	8-719-911-19	s	1SS119
IC1	8-759-132-40	s	UPC324C (NEC)
IC2	8-759-700-08	s	NJM4558S (JRC)
IC3	8-759-705-58	s	NJM4558D-D (JRC)
IC4	8-759-240-81	s	TC4081BP (TOSHIBA)
IC5	8-759-140-53	s	UPD4053BC (NEC)
IC8	8-759-132-40	s	UPC324C (NEC)
IC9	8-759-132-40	s	UPC324C (NEC)
IC10	8-759-133-90	s	UPC339C (NEC)
IC11	8-759-240-30	s	TC4030BP (TOSHIBA)
IC12	8-759-135-80	s	UPC358C (NEC)
IC13	8-759-140-53	s	UPD4053BC (NEC)
IC14	8-759-205-76	s	TC504013BP (TOSHIBA)
IC15	8-759-200-01	s	TC4001UBP (TOSHIBA)
IC16	8-759-140-53	s	UPD4053BC (NEC)
IC17	8-751-941-05	s	CX-194B-5 (SONY)
IC18	8-759-945-41	s	MB88505-547M (FUJITSU)
IC19	8-759-240-30	s	TC4030BP (TOSHIBA)
IC20	8-759-140-53	s	UPD4053BC (NEC)
IC21	8-743-915-10	s	BX-3915A (SONY)
IC22	8-759-135-80	s	UPC358C (NEC)
Q1	8-729-178-55	s	2SC2785-E
Q2	8-729-117-54	s	2SA1175-K
Q3	8-729-376-84	s	2SA768-G
Q4	8-729-804-91	s	2SD1682-S
Q5	8-729-177-43	s	2SD774-4
Q101	8-729-900-83	s	DTC124XS
Q102	8-729-178-55	s	2SC2785-E
Q103	8-729-900-83	s	DTC124XS
Q104	8-729-117-54	s	2SA1175-K
Q106	8-729-178-55	s	2SC2785-E
Q107	8-729-105-72	s	2SK523-L1
Q108	8-729-900-83	s	DTC124XS
Q109	8-729-900-89	s	DTC144ES
Q110	8-729-178-55	s	2SC2785-E
Q111	8-729-376-84	s	2SA768-G
Q112	8-729-117-54	s	2SA1175-K
Q113	8-729-804-91	s	2SD1682-S
Q114	8-729-900-67	s	DTA124XS
Q201	8-729-900-83	s	DTC124XS
Q202	8-729-900-83	s	DTC124XS

Ref No.	Parts No.	SP	Description
Q203	8-729-900-83	s	DTC124XS
Q204	8-729-900-83	s	DTC124XS
Q205	8-729-900-83	s	DTC124XS
Q206	8-729-900-83	s	DTC124XS
Q301	8-729-178-55	s	2SC2785-E
Q302	8-729-178-55	s	2SC2785-E
Q303	8-729-178-55	s	2SC2785-E
Q304	8-729-178-55	s	2SC2785-E
Q305	8-729-900-83	s	DTC124XS
Q401	8-729-178-55	s	2SC2785
Q403	8-729-178-55	s	2SC2785
Q404	8-729-178-55	s	2SC2785
Q408	8-729-600-24	s	2SC403-51
Q410	8-729-900-67	s	DTA124XS
Q411	8-729-178-55	s	2SC2785-E
Q412	8-729-178-55	s	2SC2785-E
Q413	8-729-900-83	s	DTC124XS
Q501	8-729-600-24	s	2SC403SP-51
R12	1-247-895-00	s	CARBON 470k 5% 1/4W
R13	1-247-881-00	s	CARBON 120k 5% 1/4W
R17	1-247-895-00	s	CARBON 470k 5% 1/4W
R33	1-247-849-00	s	CARBON 5.6k 5% 1/4W
R35	1-247-891-00	s	CARBON 330k 5% 1/4W
⚠R42	1-207-621-00	s	WIREWOUND 1.5 10% 3W
R125	1-247-887-00	s	CARBON 220k 5% 1/4W
R147	1-247-895-00	s	CARBON 470k 5% 1/4W
R151	1-247-891-00	s	CARBON 330k 5% 1/4W
R162	1-247-895-00	s	CARBON 470k 5% 1/4W
R172	1-247-891-00	s	CARBON 330k 5% 1/4W
R176	1-247-887-00	s	CARBON 220k 5% 1/4W
R178	1-247-895-00	s	CARBON 470k 5% 1/4W
R260	1-247-895-00	s	CARBON 470k 5% 1/4W
R306	1-247-895-00	s	CARBON 470k 5% 1/4W
R311	1-247-895-00	s	CARBON 470k 5% 1/4W
R326	1-247-883-00	s	CARBON 150k 5% 1/4W
R414	1-247-744-11	s	CARBON 270k 5% 1/2W
⚠R461	1-207-636-00	s	WIREWOUND 100 10% 3W
R507	1-247-849-00	s	CARBON 5.6k 5% 1/4W
RV1	1-228-994-00	s	VAR, CARBON 10k
RV3	1-228-990-00	s	VAR, CARBON 1k
RV100	1-228-993-00	s	VAR, CARBON 4.7k
RV101	1-228-994-00	s	VAR, CARBON 10k
RV102	1-228-994-00	s	VAR, METAL GLAZE 10k
RV106	1-228-993-00	s	VAR, CARBON 4.7k
RV107	1-228-995-00	s	vAR, CARBON 22k
RV201	1-228-990-00	s	VAR, CARBON 1k
RV401	1-228-996-00	s	VAR, CARBON 47k
RV403	1-228-996-00	s	VAR, CARBON 47k
RV405	1-228-996-00	s	VAR, CARBON 47k
RV407	1-228-997-00	s	VAR, CARBON 100k
X1	1-527-376-00	s	CRYSTAL 3.58MHz
X2	1-527-734-00	s	CRYSTAL 6MHz

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref No.	Parts No.	SP	Description
SY-106 BOARD			
	⚠A-6717-448-A	o	MOUNTED CIRCUIT BOARD, SY-106
C2	1-161-021-11	s	CERAMIC 0.047 10% 25V
C3	1-161-013-00	s	CERAMIC 0.01 10% 25V
C4	1-161-041-00	s	CERAMIC 0.0015 10% 25V
C5	1-161-013-00	s	CERAMIC 0.01 10% 25V
C6	1-161-055-00	s	CERAMIC 0.022 10% 25V
C10	1-162-286-31	s	CERAMIC 220PF 10% 50V
C11	1-124-499-11	s	ELECT 1 20% 50V
C14	1-162-286-31	s	CERAMIC 220PF 10% 50V
C15	1-161-020-11	s	CERAMIC 0.039 10% 25V
C17	1-124-499-11	s	ELECT 1 20% 50V
C18	1-131-358-00	s	TANTALUM 6.8 10% 25V
C19	1-161-013-00	s	CERAMIC 0.01 10% 25V
C20	1-161-057-00	s	CERAMIC 0.033 10% 25V
C21	1-161-013-00	s	CERAMIC 0.01 10% 25V
C22	1-162-216-31	s	CERAMIC 51PF 5% 50V
C23	1-124-499-11	s	ELECT 1 20% 50V
C24	1-161-021-11	s	CERAMIC 0.047 10% 25V
C30	1-124-499-11	s	ELECT 1 20% 50V
C31	1-161-039-00	s	CERAMIC 0.001 10% 25V
C32	1-162-211-31	s	CERAMIC 33PF 5% 50V
C33	1-161-021-11	s	CERAMIC 0.047 10% 25V
C34	1-161-039-00	s	CERAMIC 0.001 10% 25V
C36	1-161-021-11	s	CERAMIC 0.047 10% 25V
C37	1-162-211-31	s	CERAMIC 33PF 5% 50V
C38	1-161-055-00	s	CERAMIC 0.022 10% 25V
C42	1-161-021-11	s	CERAMIC 0.047 10% 25V
C46	1-162-290-31	s	CERAMIC 470PF 10% 50V
C47	1-162-210-31	s	CERAMIC 30PF 5% 50V
C48	1-162-210-31	s	CERAMIC 30PF 5% 50V
C49	1-124-499-11	s	ELECT 1 20% 50V
C50	1-124-499-11	s	ELECT 1 20% 50V
C55	1-162-290-31	s	CERAMIC 470PF 10% 50V
CN505	1-506-815-11	o	HOUSING, BOARD IN CONNECTOR 6P
	1-563-180-11	o	HOUSING, CONNECTOR 6P
CN507	1-506-821-11	o	HOUSING, BOARD IN CONNECTOR 12P
	1-563-186-11	o	HOUSING, CONNECTOR 12P
CN508	1-506-821-11	o	HOUSING, BOARD IN CONNECTOR 12P
	1-563-186-11	o	HOUSING, CONNECTOR 12P
D1	8-719-911-19	s	1SS119
D2	8-719-911-19	s	1SS119
D3	8-719-911-19	s	1SS119
D4	8-719-911-19	s	1SS119
D5	8-719-911-19	s	1SS119
D6	8-719-911-19	s	1SS119
D7	8-719-911-19	s	1SS119
D8	8-719-911-19	s	1SS119
D9	8-719-911-19	s	1SS119
D10	8-719-911-19	s	1SS119
D11	8-719-911-19	s	1SS119
D12	8-719-911-19	s	1SS119
D13	8-719-911-19	s	1SS119
D14	8-719-911-19	s	1SS119
D15	8-719-911-19	s	1SS119
D16	8-719-911-19	s	1SS119
D17	8-719-911-19	s	1SS119
D18	8-719-911-19	s	1SS119
D20	8-719-911-19	s	1SS119
D21	8-719-911-55	s	U05-G
D22	8-719-911-55	s	U05-G
D23	8-719-911-55	s	U05-G
D24	8-719-911-19	s	1SS119
D25	8-719-911-19	s	1SS119
D26	8-719-911-19	s	1SS119
D30	8-719-911-19	s	1SS119
D31	8-719-911-19	s	1SS119
D32	8-719-911-19	s	1SS119
D33	8-719-911-19	s	1SS119
D41	8-719-911-19	s	1SS119
D42	8-719-911-19	s	1SS119
D43	8-719-101-97	s	1SS97-1
IC1	8-759-145-58	s	UPC4558C (NEC)
IC2	8-759-145-58	s	UPC4558C (NEC)
IC3	8-759-345-38	s	HD14538BP (HITACHI)
IC4	8-759-135-80	s	UPC358C (NEC)
IC5	8-759-145-58	s	UPC4558C (NEC)
IC6	8-759-240-69	s	TC4069UBP (TOSHIBA)
IC7	8-759-945-39	s	MB88525-177M (FUJITSU)
IC8	8-759-729-03	s	NJM2903D (JRC)
IC9	8-759-600-24	s	M54543L (MITSUBISHI)
IC10	8-759-600-24	s	M54543L (MITSUBISHI)
IC11	8-759-240-69	s	TC4069UBP (TOSHIBA)
IC12	8-759-945-43	s	MB88505-549M (FUJITSU)
IC13	8-759-220-00	s	TC40H000P (TOSHIBA)
IC14	8-759-913-99	s	MB88201-173N (FUJITSU)
IC15	8-759-729-03	s	NJM2903D (JRC)
IC17	8-759-240-01	s	TC4001BP (TOSHIBA)
IC18	8-759-240-69	s	TC4069UBP (TOSHIBA)
IC19	8-759-345-38	s	HD14538BP (HITACHI)
IC20	8-759-202-55	s	TC74HC244P (TOSHIBA)
Q1	8-729-177-43	s	2SD774-4
Q3	8-729-889-40	s	2SD894
Q4	8-729-178-55	s	2SC2785-E
Q5	8-729-178-55	s	2SC2785-E
Q6	8-729-178-55	s	2SC2785-E
Q7	8-729-178-55	s	2SC2785-E
Q8	8-729-178-55	s	2SC2785-E
Q9	8-729-900-89	s	DTC144ES
Q10	8-729-117-54	s	2SA1175-K
Q11	8-729-900-89	s	DTC144ES
Q12	8-729-175-54	s	2SA1175-K
Q13	8-729-900-89	s	DTC144ES
Q14	8-729-900-89	s	DTC144ES
Q15	8-729-178-55	s	2SC2785-E
Q16	8-729-178-55	s	2SC2785-E

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Ref No.	Parts No.	SP	Description
Q17	8-729-900-89	s	DTC144ES
Q18	8-729-900-89	s	DTC144ES
Q19	8-729-900-89	s	DTC144ES
Q20	8-729-178-55	s	2SC2785-E
Q21	8-729-900-89	s	DTC144ES
Q22	8-729-900-89	s	DTC144ES
Q23	8-729-900-89	s	DTC144ES
Q24	8-729-900-89	s	DTC144ES
Q25	8-729-900-89	s	DTC144ES
Q26	8-729-178-55	s	2SC2785-E
Q27	8-729-178-55	s	2SC2785-E
Q28	8-729-117-54	s	2SA1175-K
Q29	8-729-178-55	s	2SC2785-E
Q30	8-729-900-89	s	DTC144ES
Q31	8-729-178-55	s	2SC2785-E
Q32	8-729-900-89	s	DTC144ES
Q33	8-729-900-89	s	DTC144ES
Q34	8-729-900-89	s	DTC144ES
Q35	8-729-398-62	s	2SC1986
Q36	8-729-900-89	s	DTC144ES
Q37	8-729-900-89	s	DTC144ES
Q38	8-729-900-89	s	DTC144ES
Q39	8-729-900-89	s	DTC144ES
Q40	8-729-900-89	s	DTC144ES
Q41	8-729-900-89	s	DTC144ES
Q42	8-729-900-89	s	DTC144ES
Q43	8-729-900-89	s	DTC144ES
Q44	8-729-811-11	s	2SD1111
⚠R11	1-207-674-00	s	WIREWOUND 4.7 10% 6W
R13	1-247-895-00	s	CARBON 470k 5% 1/4W
R24	1-247-895-00	s	CARBON 470k 5% 1/4W
R32	1-247-891-00	s	CARBON 330k 5% 1/4W
R33	1-247-883-00	s	CARBON 150k 5% 1/4W
R38	1-247-891-00	s	CARBON 330k 5% 1/4W
R40	1-247-887-00	s	CARBON 220k 5% 1/4W
R41	1-247-701-11	s	CARBON 120 5% 1/4W
R47	1-247-881-00	s	CARBON 120k 5% 1/4W
R48	1-247-881-00	s	CARBON 120k 5% 1/4W
R76	1-247-887-00	s	CARBON 220k 5% 1/4W
R85	1-247-887-00	s	CARBON 220k 5% 1/4W
R112	1-246-449-25	s	CARBON 100 5% 1/4W
R159	1-214-853-00	s	METAL 360 1% 1/2W
R160	1-214-852-00	s	METAL 330 1% 1/2W
R189	1-247-887-00	s	CARBON 220k 5% 1/4W
R192	1-532-637-00	s	LINK, IC
R201	1-532-605-00	s	LINK, IC
R204	1-532-637-00	s	LINK, IC
R300	1-532-769-21	s	FUSE, MICRO 0.2A
RV1	1-230-722-11	s	VAR, CARBON 22k
RV2	1-230-720-11	s	VAR, CARBON 4.7k
RV3	1-230-720-11	s	VAR, CARBON 4.7k
RV4	1-230-722-11	s	VAR, CARBON 22k

Ref No.	Parts No.	SP	Description
SW1	1-552-509-00	s	DIP
X1	1-567-143-00	s	CERAMIC 6MHz
X2	1-567-192-11	s	CERAMIC 4MHz

TG-22 BOARD

Ref No.	Parts No.	SP	Description
	1-618-597-11	o	PRINTED CIRCUIT BOARD, TG-22
D1	8-719-904-55	s	GL-5HD5

UR-14 BOARD

Ref No.	Parts No.	SP	Description
	⚠1-413-248-11	s	SWITCHING REGULATOR, UR-14
⚠C101	1-161-742-00	s	CERAMIC 2200PF 20% 400V
C102	1-161-742-00	s	CERAMIC 2200PF 20% 400V
C103	1-161-742-00	s	CERAMIC 2200PF 20% 400V
C104	1-161-742-00	s	CERAMIC 2200PF 20% 400V
C105	1-136-212-00	s	MYLAR 0.1 20% 250V
C106	1-136-212-00	s	MYLAR 0.1 20% 250V
C107	1-161-742-00	s	CERAMIC 2200PF 20% 400V
C108	1-161-742-00	s	CERAMIC 2200PF 20% 400V
C109	1-124-961-00	s	ELECT 220 20% 200V
C110	1-124-023-00	s	ELECT 4.7 20% 350V
C111	1-124-023-00	s	ELECT 4.7 20% 350V
C112	1-124-549-00	s	ELECT 100 20% 10V
C113	1-124-961-00	s	ELECT 220 20% 200V
C114	1-124-549-00	s	ELECT 100 20% 10V
C201	1-108-413-00	s	MYLAR 2200PF 10% 200V
C202	1-108-413-00	s	MYLAR 2200PF 10% 200V
C203	1-161-825-11	s	CERAMIC 220PF 10% 500V
C204	1-161-825-11	s	CERAMIC 220PF 10% 500V
C205	1-161-825-11	s	CERAMIC 220PF 10% 500V
C206	1-161-825-11	s	CERAMIC 220PF 10% 500V
C207	1-123-357-00	s	ELECT 22 20% 50V
C209	1-108-413-00	s	MYLAR 2200PF 10% 200V
C210	1-136-153-00	s	MYLAR 0.01 5% 50V
C211	1-130-516-00	s	MYLAR 0.01 5% 50V
C212	1-124-556-00	s	ELECT 2200 20% 16V
C213	1-124-556-00	s	ELECT 2200 20% 16V
C214	1-124-556-00	s	ELECT 2200 20% 16V
C215	1-124-556-00	s	ELECT 2200 20% 16V
C216	1-123-326-00	s	ELECT 3300 20% 16V
C217	1-123-332-00	s	ELECT 47 20% 50V
C651	1-124-445-00	s	ELECT 100 20% 16V
C652	1-130-591-11	s	MYLAR 3300PF 2% 100V
C653	1-136-141-00	s	MYLAR 1000PF 10% 50V
C654	1-136-165-00	s	MYLAR 0.1 5% 50V
C655	1-123-318-00	s	ELECT 33 16V

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Ref No.	Parts No.	SP	Description
⚠CN101	1-560-436-00	o	REEPTACLE, 3P
	1-561-218-11	o	HOUSING, 3P
	1-561-254-11	o	CONTACT
CN201	1-560-438-00	o	RECEPTACLE, 5P
	1-561-424-11	o	HOUSING, 5P
	1-561-254-11	o	CONTACT
D101	8-719-300-00	s	LB-156
D201	8-719-908-00	s	ESAC33-02CS
D202	8-719-908-00	s	ESAC33-02CS
D203	8-719-900-93	s	V09C
D204	8-719-900-93	s	V09C
D205	8-719-815-55	s	1S1555
D206	8-719-100-61	s	RD11EB2
D208	8-719-101-67	s	RD7.5EL2
D209	8-719-100-30	s	RD5.1EB2
D210	8-719-100-30	s	RD5.1EB2
D651	8-719-200-02	s	10E-2
D652	8-719-100-70	s	RD15EB1
D653	8-719-815-55	s	1S1555
FB101	1-543-060-00	s	CORE
FB102	1-543-060-00	s	CORE
FB201	1-543-060-00	s	CORE
FB202	1-543-060-00	s	CORE
FB203	1-543-060-00	s	CORE
FB204	1-543-060-00	s	CORE
FB205	1-543-060-00	s	CORE
FB206	1-543-060-00	s	CORE
FB207	1-543-060-00	s	CORE
FB208	1-543-060-00	s	CORE
FB209	1-543-060-00	s	CORE
IC651	8-759-937-00	s	MB3759 (FUJITSU)
⚠L101	1-421-848-11	s	LINE FILTER
L201	1-421-849-11	s	CHOKE, 2.4mH
L203	1-408-316-00	s	CHOKE
L204	1-421-850-11	s	CHOKE, 12
L205	1-421-329-00	s	CHOKE
Q101	8-729-901-72	s	2SC3317
Q102	8-729-901-72	s	2SC3317
Q103	8-729-100-13	s	2SC2001
Q104	8-729-100-13	s	2SC2001
Q201	8-729-600-27	s	2SC2603-F
Q202	8-729-117-54	s	2SA1175-F

Ref No.	Parts No.	SP	Description
R101	1-214-947-00	s	METAL 2.7M 1% 1/2W
⚠R102	1-205-715-11	s	CEMENT 3.3 5% 5W
R103	1-246-529-00	s	CARBON 220k 5% 1/4W
R104	1-246-529-00	s	CARBON 220k 5% 1/4W
⚠R105	1-212-934-00	s	METAL 1 5% 1/2W
R106	1-247-107-00	s	NF CARBON 100 5% 1/5W
R107	1-246-529-00	s	CARBON 220k 5% 1/4W
R108	1-246-529-00	s	CARBON 220k 5% 1/4W
⚠R109	1-212-934-00	s	METAL 1 5% 1/2W
R110	1-247-107-00	s	NF CARBON 100 5% 1/4W
⚠R111	1-205-715-00	s	CEMENT 3.3 5% 5W
R201	1-206-475-00	s	METAL 33 5% 2W
R202	1-535-369-00	s	SHUNT
⚠R203	1-213-151-00	s	METAL 4.7k 5% 5W
R204	1-247-131-00	s	NF CARBON 1k 5% 1/4W
R205	1-247-143-00	s	NF CARBON 3.3k 5% 1/4W
R206	1-249-455-11	s	NF CARBON 4.7k 5% 1/4W
R207	1-247-139-00	s	NF CARBON 2.2k 5% 1/4W
R208	1-247-123-00	s	NF CARBON 470 5% 1/4W
R209	1-247-115-00	s	NF CARBON 220 5% 1/4W
R212	1-247-224-00	s	NF CARBON 220 5% 1/2W
R651	1-249-425-11	s	NF CARBON 4.7k 5% 1/6W
RV651	1-228-644-00	s	VAR, METAL 1k 0.3W
⚠T101	1-448-423-11	s	CONVERTER
T102	1-437-120-00	s	DRIVE

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Ref No.	Parts No.	SP	Description			
VP-21 BOARD						
	A-6711-817-A	o	MOUNTED CIRCUIT BOARD, VP-21			
C29	1-162-215-31	s	CERAMIC	47PF	5%	50V
C41	1-126-103-11	s	ELECT	470	20%	16V
C47	1-162-217-31	s	CERAMIC	56PF	5%	50V
C48	1-124-499-11	s	ELECT	1	20%	50V
C49	1-124-499-11	s	ELECT	1	20%	50V
C59	1-124-499-11	s	ELECT	1	20%	50V
C60	1-124-499-11	s	ELECT	1	20%	50V
C87	1-163-033-00	s	CERAMIC CHIP	0.022		50V
C96	1-124-499-11	s	ELECT	1	20%	50V
C106	1-163-033-00	s	CERAMIC CHIP	0.022		50V
C110	1-161-047-00	s	CERAMIC	0.0047	10%	50V
C111	1-107-026-00	s	MICA	5.1PF	0.5PF	500V
C114	1-107-026-00	s	MICA	5.1PF	0.5PF	500V
C115	1-163-033-00	s	CERAMIC CHIP	0.022		50V
C117	1-163-033-00	s	CERAMIC CHIP	0.022		50V
C122	1-163-033-00	s	CERAMIC CHIP	0.022		50V
C124	1-124-499-11	s	ELECT	1	20%	50V
C130	1-161-379-00	s	CERAMIC	0.01	30%	16V
C203	1-124-499-11	s	ELECT	1	20%	50V
C207	1-124-499-11	s	ELECT	1	20%	50V
C211	1-163-033-00	s	CERAMIC CHIP	0.022		50V
C213	1-163-033-00	s	CERAMIC CHIP	0.022		50V
C214	1-163-033-00	s	CERAMIC CHIP	0.022		50V
C224	1-161-379-00	s	CERAMIC	0.01	30%	16V
C233	1-102-761-00	s	CERAMIC	75PF	5%	50V
C254	1-131-363-00	s	TANTALUM	4.7	10%	16V
C255	1-131-405-00	s	ELECT (SOLID)	0.33	5%	25V
C265	1-127-475-00	s	ELECT (SOLID)	0.22	5%	25V
C269	1-124-499-11	s	ELECT	1	20%	50V
C271	1-161-379-00	s	CERAMIC	0.01	30%	16V
C275	1-131-347-00	s	TANTALUM	1	10%	35V
C276	1-131-379-00	s	TANTALUM	22	10%	10V
C277	1-131-347-00	s	TANTALUM	1	10%	35V
C278	1-131-379-00	s	TANTALUM	22	10%	10V
C281	1-163-033-00	s	CERAMIC CHIP	0.022		50V
C283	1-107-096-00	s	MICA	300PF	5%	50V
C285	1-107-096-00	s	MICA	300PF	5%	50V
C290	1-131-361-00	s	TANTALUM	2.2	10%	16V
C293	1-131-349-00	s	TANTALUM	2.2	10%	35V
C295	1-163-033-00	s	CERAMIC CHIP	0.022		50V
C405	1-107-162-00	s	MICA	43PF	5%	500V
C406	1-124-907-00	s	ELECT	10	20%	50V
C407	1-123-875-11	s	ELECT	10	20%	50V
CN1002	1-563-356-11	s	CONNECTOR, MULTI 8P "TV"			
CN1003	1-563-354-11	o	BNC "VIDEO OUT-1"			
CN1004	1-563-354-11	o	BNC "VIDEO OUT-2"			
CN1005	1-563-354-11	o	BNC "RF OFF TAPE OUT"			
CN1006	1-563-354-11	o	BNC "VUDEO IN"			
CN1007	1-563-354-11	o	BNC "EXT SYNC IN"			
CN1008	1-563-354-11	o	BNC "EXT SC IN"			
CN1009	1-563-989-11	s	JACK, PIN (RCA) 1P "AUDIO MONITOR"			

Ref No.	Parts No.	SP	Description
D1	8-719-104-31	s	1S2837
D2	8-719-104-31	s	1S2837
D3	8-719-104-31	s	1S2837
D4	8-719-911-19	s	1SS119
D5	8-719-911-19	s	1SS119
D6	8-719-911-19	s	1SS119
D7	8-719-911-19	s	1SS119
D8	8-719-101-97	s	1SS97-1
D9	8-719-101-97	s	1SS97-1
D11	8-719-911-19	s	1SS119
D201	8-719-104-10	s	1SS99
D202	8-719-104-10	s	1SS99
D203	8-719-104-10	s	1SS99
D204	8-719-104-10	s	1SS99
D205	8-719-815-59	s	1S1555-S
D206	8-719-915-43	s	FC54M
D207	8-719-815-59	s	1S1555-S
D208	8-719-911-19	s	1SS119
D209	8-719-911-19	s	1SS119
D210	8-719-911-19	s	1SS119
D211	8-719-815-59	s	1S1555-S
D212	8-719-815-59	s	1S1555-S
D213	8-719-911-19	s	1SS119
D214	8-719-911-19	s	1SS119
D215	8-719-911-19	s	1SS119
D216	8-719-911-19	s	1SS119
D217	8-719-911-19	s	1SS119
D401	8-719-104-10	s	1SS99
D402	8-719-104-10	s	1SS99
DL1	1-415-162-21	s	50ns
DL2	1-415-154-21	s	35ns
FL1	1-231-581-21	s	HIGH PASS
FL2	1-235-623-11	s	HIGH PASS
FL3	1-236-039-11	s	LOW PASS
FL4	1-236-037-11	s	LOW PASS
FL5	1-235-474-11	s	LOW PASS
FL6	1-235-617-11	s	LOW PASS
FL200	1-409-428-11	s	TRAP
FL201	1-236-038-11	s	BAND PASS
FL202	1-415-550-11	s	DELAY LINE 80ns
FL203	1-236-036-11	s	BAND PASS
IC1	8-751-340-10	s	CX-134A (SONY)
IC2	8-741-114-00	s	BX-1140 (SONY)
IC3	8-759-708-05	s	NJM78L05 (JRC)
IC4	8-741-124-80	s	BX-1248 (SONY)
IC5	8-751-350-10	s	CX-135 (SONY)
IC6	8-752-321-75	s	CXL5005P (SONY)
IC7	8-759-927-56	s	BA7021
IC8	8-759-708-09	s	NJM78L09A (JRC)
IC9	8-749-900-94	s	BX-1472 (SONY)
IC10	8-743-880-00	s	BX-388 (SONY)

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref No.	Parts No.	SP	Description
IC11	8-759-200-60	s	TA7060AP (TOSHIBA)
IC12	8-759-208-10	s	TC4053BP (TOSHIBA)
IC13	8-749-900-68	s	BX-1447L (SONY)
IC14	8-759-208-17	s	TC4528BP (TOSHIBA)
IC15	8-749-900-59	s	BX-1448L (SONY)
IC16	8-759-208-10	s	TC4053BP (TOSHIBA)
IC17	8-749-938-90	s	BX-389 (SONY)
IC18	8-759-240-01	s	TC4001BP (TOSHIBA)
IC19	8-752-006-10	s	CX20061 (SONY)
IC20	8-759-208-17	s	TC4528BP (TOSHIBA)
IC201	8-750-000-46	s	CX-872 (SONY)
IC202	8-758-050-00	s	CX-805 (SONY)
IC203	8-741-125-10	s	BX-1251 (SONY)
IC204	8-759-200-60	s	TA7060AP (TOSHIBA)
IC205	8-759-208-10	s	TC4053BP (TOSHIBA)
IC206	8-759-208-17	s	TC4528BP (TOSHIBA)
IC207	8-759-208-17	s	TC4528BP (TOSHIBA)
IC208	8-752-006-10	s	CX20061 (SONY)
IC401	8-759-200-60	s	TA7060AP (TOSHIBA)
L3	1-410-087-31	s	10mH
L4	1-410-087-31	s	10mH
L5	1-410-119-11	s	1mH
L14	1-410-087-31	s	10mH
LV1	1-407-569-00	s	COIL, VARIABLE 10uH
LV2	1-407-268-00	s	MICRO INDUCTOR 1.5mH
Q1	8-729-178-55	s	2SC2785-E
Q2	8-729-271-22	s	2SC2712G
Q3	8-729-271-22	s	2SC2712G
Q4	8-729-271-22	s	2SC2712G
Q5	8-729-271-22	s	2SC2712G
Q6	8-729-271-22	s	2SC2712G
Q7	8-729-113-33	s	2SB733-T-4
Q8	8-729-901-01	s	DTC144EK
Q9	8-729-901-01	s	DTC144EK
Q10	8-729-271-22	s	2SC2712G
Q11	8-729-271-22	s	2SC2712G
Q12	8-729-901-01	s	DTC144EK
Q13	8-729-901-01	s	DTC144EK
Q14	8-729-178-55	s	2SC2785-E
Q15	8-729-271-22	s	2SC2712G
Q16	8-729-271-22	s	2SC2712G
Q17	8-729-271-22	s	2SC2712G
Q18	8-729-201-05	s	2SC2878-B
Q19	8-729-216-22	s	2SA1162
Q20	8-729-271-22	s	2SC2712G
Q21	8-729-216-22	s	2SA1162
Q22	8-729-271-22	s	2SC2712G
Q23	8-729-271-22	s	2SC2712G
Q24	8-729-216-22	s	2SA1162
Q25	8-729-901-01	s	DTC144EK

Ref No.	Parts No.	SP	Description
Q26	8-729-201-05	s	2SC2878-B
Q27	8-729-901-01	s	DTC144EK
Q28	8-729-201-05	s	2SC2878-B
Q29	8-729-901-01	s	DTC144EK
Q30	8-729-271-22	s	2SC2712G
Q31	8-729-271-22	s	2SC2712G
Q32	8-729-901-01	s	DTC144EK
Q33	8-729-271-22	s	2SC2712G
Q34	8-729-271-22	s	2SC2712G
Q35	8-729-271-22	s	2SC2712G
Q36	8-729-271-22	s	2SC2712G
Q37	8-729-201-05	s	2SC2878-B
Q38	8-729-901-01	s	DTC144EK
Q39	8-729-271-22	s	2SC2712G
Q40	8-729-271-22	s	2SC2712G
Q41	8-729-901-01	s	DTC144EK
Q42	8-729-271-22	s	2SC2712G
Q43	8-729-178-55	s	2SC2785-E
Q44	8-729-271-22	s	2SC2712G
Q45	8-729-901-01	s	DTC144EK
Q47	8-729-178-55	s	2SC2785-E
Q48	8-729-271-22	s	2SC2712G
Q49	8-729-201-05	s	2SC2878-B
Q50	8-729-271-22	s	2SC2712G
Q51	8-729-216-22	s	2SA1162
Q52	8-729-271-22	s	2SC2712G
Q53	8-729-271-22	s	2SC2712G
Q54	8-729-271-22	s	2SC2712G
Q55	8-729-216-22	s	2SA1162
Q56	8-729-271-22	s	2SC2712G
Q57	8-729-271-22	s	2SC2712G
Q58	8-729-216-22	s	2SA1162
Q59	8-729-271-22	s	2SC2712G
Q60	8-729-271-22	s	2SC2712G
Q61	8-729-901-01	s	DTC144EK
Q63	8-729-901-01	s	DTC144EK
Q64	8-729-201-05	s	2SC2878-B
Q65	8-729-900-89	s	DTC144ES
Q201	8-729-271-22	s	2SC2712G
Q202	8-729-201-05	s	2SC2878-B
Q203	8-729-201-05	s	2SC2878-B
Q204	8-729-901-01	s	DTC144EK
Q205	8-729-271-22	s	2SC2712G
Q206	8-729-271-22	s	2SC2712G
Q207	8-729-271-22	s	2SC2712G
Q208	8-729-201-05	s	2SC2878-B
Q209	8-729-901-01	s	DTC144EK
Q210	8-729-271-22	s	2SC2712G
Q211	8-729-271-22	s	2SC2712G
Q212	8-729-271-22	s	2SC2712G
Q213	8-729-271-22	s	2SC2712G
Q214	8-729-271-22	s	2SC2712G
Q215	8-729-271-22	s	2SC2712G
Q216	8-729-271-22	s	2SC2712G
Q217	8-729-201-05	s	2SC2878-B
Q218	8-729-271-22	s	2SC2712G
Q219	8-729-271-22	s	2SC2712G
Q220	8-729-201-05	s	2SC2878-B
Q221	8-729-178-55	s	2SC2785-E
Q222	8-729-271-22	s	2SC2712G

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Ref No.	Parts No.	SP	Description
Q223	8-729-201-05	s	2SC2878-B
Q225	8-729-201-05	s	2SC2878-B
Q226	8-729-201-05	s	2SC2878-B
Q227	8-729-201-05	s	2SC2878-B
Q228	8-729-216-22	s	2SA1162
Q230	8-729-201-05	s	2SC2878-B
Q231	8-729-201-05	s	2SC2878-B
Q233	8-729-271-22	s	2SC2712G
Q401	8-729-600-24	s	2SC403SP-51
Q402	8-729-600-24	s	2SC403SP-51
Q403	8-729-201-05	s	2SC2878-B
R5	1-249-457-11	s	CARBON 6.8 5% 1/4W
RV1	1-228-991-00	s	VAR, CARBON 2.2k
RV2	1-228-991-00	s	VAR, CARBON 2.2k
RV3	1-228-991-00	s	VAR, CARBON 2.2k
RV4	1-228-991-00	s	VAR, CARBON 2.2k
RV5	1-228-989-00	s	VAR, CARBON 470
RV6	1-228-995-00	s	VAR, CARBON 22k
RV7	1-228-993-00	s	VAR, CARBON 4.7k
RV8	1-228-991-00	s	VAR, CARBON 2.2k
RV9	1-228-991-00	s	VAR, CARBON 2.2k
RV10	1-228-991-00	s	VAR, CARBON 2.2k
RV11	1-228-994-00	s	VAR, CARBON 10k
RV12	1-228-990-00	s	VAR, CARBON 1k
RV13	1-228-990-00	s	VAR, CARBON 1k
RV14	1-228-990-00	s	VAR, CARBON 1k
RV15	1-228-991-00	s	VAR, CARBON 2.2k
RV16	1-228-997-00	s	VAR, CARBON 100k
RV17	1-228-994-00	s	VAR, CARBON 10k
RV18	1-228-990-00	s	VAR, CARBON 1k
RV19	1-228-995-00	s	VAR, CARBON 22k
RV20	1-228-991-00	s	VAR, CARBON 2.2k
RV201	1-228-995-00	s	VAR, CARBON 22k
RV203	1-228-991-00	s	VAR, CARBON 2.2k
RV204	1-228-993-00	s	VAR, CARBON 4.7k
RV205	1-228-990-00	s	VAR, CARBON 1k
RV206	1-228-994-00	s	VAR, CARBON 10k
RV207	1-228-995-00	s	VAR, CARBON 22k
RV208	1-228-995-00	s	VAR, CARBON 22k
RV209	1-228-995-00	s	VAR, CARBON 22k
RV210	1-228-995-00	s	VAR, CARBON 22k
RV211	1-228-994-00	s	VAR, CARBON 10k
RV212	1-228-993-00	s	VAR, CARBON 4.7k
RV213	1-228-991-00	s	VAR, CARBON 2.2k
RV214	1-228-991-00	s	VAR, CARBON 2.2k
RV215	1-228-991-00	s	VAR, CARBON 2.2k
T1	1-425-785-21	s	BURST AMP (BAT)
X1	1-527-536-00	s	OSCILLATOR, CRYSTAL 3.58MHz

VR-52 BOARD

Ref No.	Parts No.	SP	Description
	A-6711-818-A	o	MOUNTED CIRCUIT BOARD, VR-52
C4	1-161-494-00	s	CERAMIC 0.022 25V
C11	1-161-379-00	s	CERAMIC 0.01 30% 16V
C15	1-161-494-00	s	CERAMIC 0.022 25V
C19	1-162-764-11	s	CERAMIC 820PF 5% 50V
C24	1-161-379-00	s	CERAMIC 0.01 30% 16V
C27	1-161-013-00	s	CERAMIC 0.01 10% 25V
C31	1-161-494-00	s	CERAMIC 0.022 25V
C33	1-161-379-00	s	CERAMIC 0.01 30% 16V
C37	1-161-379-00	s	CERAMIC 0.01 30% 16V
C38	1-161-379-00	s	CERAMIC 0.01 30% 16V
C40	1-161-379-00	s	CERAMIC 0.01 30% 16V
C43	1-161-379-00	s	CERAMIC 0.01 30% 16V
C50	1-161-379-00	s	CERAMIC 0.01 30% 16V
C52	1-161-379-00	s	CERAMIC 0.01 30% 16V
C55	1-161-494-00	s	CERAMIC 0.022 25V
C56	1-161-379-00	s	CERAMIC 0.01 30% 16V
C70	1-161-379-00	s	CERAMIC 0.01 30% 16V
C73	1-161-379-00	s	CERAMIC 0.01 30% 16V
C74	1-161-379-00	s	CERAMIC 0.01 30% 16V
C75	1-161-379-00	s	CERAMIC 0.01 30% 16V
C78	1-161-379-00	s	CERAMIC 0.01 30% 16V
C80	1-161-379-00	s	CERAMIC 0.01 30% 16V
C86	1-161-379-00	s	CERAMIC 0.01 30% 16V
C87	1-161-379-00	s	CERAMIC 0.01 30% 16V
C101	1-161-494-00	s	CERAMIC 0.022 25V
C103	1-161-379-00	s	CERAMIC 0.01 30% 16V
C108	1-161-379-00	s	CERAMIC 0.01 30% 16V
C110	1-161-494-00	s	CERAMIC 0.022 25V
C111	1-161-379-00	s	CERAMIC 0.01 30% 16V
C112	1-161-379-00	s	CERAMIC 0.01 30% 16V
C113	1-161-021-11	s	CERAMIC 0.047 10% 25V
C115	1-161-013-00	s	CERAMIC 0.01 10% 25V
C120	1-161-379-00	s	CERAMIC 0.01 30% 16V
C121	1-161-379-00	s	CERAMIC 0.01 30% 16V
C122	1-161-379-00	s	CERAMIC 0.01 30% 16V
C124	1-161-379-00	s	CERAMIC 0.01 30% 16V
C125	1-161-379-00	s	CERAMIC 0.01 30% 16V
C130	1-161-494-00	s	CERAMIC 0.022 25V
C131	1-161-494-00	s	CERAMIC 0.022 25V
C132	1-161-494-00	s	CERAMIC 0.022 25V
C200	1-161-494-00	s	CERAMIC 0.022 25V
C202	1-161-021-00	s	CERAMIC 0.047 10% 25V
C204	1-161-379-00	s	CERAMIC 0.01 30% 16V
C205	1-161-021-00	s	CERAMIC 0.047 10% 25V
C206	1-161-021-00	s	CERAMIC 0.047 10% 25V
C209	1-161-379-00	s	CERAMIC 0.01 30% 16V
C210	1-161-379-00	s	CERAMIC 0.01 30% 16V
C212	1-161-379-00	s	CERAMIC 0.01 30% 16V
C215	1-161-379-00	s	CERAMIC 0.01 30% 16V
C217	1-161-379-00	s	CERAMIC 0.01 30% 16V
C219	1-161-379-00	s	CERAMIC 0.01 30% 16V
C220	1-161-379-00	s	CERAMIC 0.01 30% 16V
C221	1-161-379-00	s	CERAMIC 0.01 30% 16V
C227	1-109-688-00	s	MICA 430PF 1% 500V
C229	1-131-381-00	s	TANTALUM 47 10% 10V

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref No.	Parts No.	SP	Description
C235	1-161-494-00	s	CERAMIC 0.022 25V
C238	1-161-379-00	s	CERAMIC 0.01 30% 16V
C303	1-162-762-11	s	CERAMIC 560PF 5% 50V
C304	1-161-494-00	s	CERAMIC 0.022 25V
C306	1-124-499-11	s	ELECT 1 20% 50V
C307	1-124-499-11	s	ELECT 1 20% 50V
CF120	1-527-307-XX	s	FILTER
CF121	1-527-307-XX	s	FILTER
D23	8-719-911-19	s	1SS119
D24	8-719-911-19	s	1SS119
D100	8-719-101-97	s	1SS97-1
D101	8-719-101-97	s	1SS97-1
D102	8-719-101-97	s	1SS97-1
D103	8-719-101-97	s	1SS97-1
D200	8-719-100-21	s	RD3.9EB2
DL1	1-415-551-11	s	140ns
DL2	1-415-551-11	s	140ns
DL30	1-415-348-00	s	280ns
DL100	1-415-348-21	s	280ns
FL1	1-235-757-11	s	LOW PASS
FL2	1-236-040-11	s	LOW PASS
FL30	1-235-757-11	s	LOW PASS
FL70	1-235-757-11	s	LOW PASS
FL200	1-235-613-11	s	HIGH PASS
FL201	1-231-580-21	s	HIGH PASS
FL300	1-236-041-11	s	LOW PASS
IC1	8-752-006-10	s	CX20061 (SONY)
IC5	8-759-402-33	s	AN607P (MATSUSHITA)
IC30	8-752-320-32	s	CXL5001P (SONY)
IC31	8-752-201-30	s	CX22013 (SONY)
IC32	8-759-400-06	s	AN608P (MATSUSHITA)
IC70	8-752-320-32	s	CXL5001P (SONY)
IC71	8-759-402-33	s	AN607P (MATSUSHITA)
IC100	8-759-200-60	s	TA7060AP (TOSHIBA)
IC101	8-752-201-30	s	CX22013 (SONY)
IC102	8-759-402-33	s	AN607P (MATSUSHITA)
IC120	8-759-200-60	s	TA7060AP (TOSHIBA)
IC130	8-759-708-05	s	NJM78L05A (JRC)
IC131	8-759-700-14	s	NJM78M09A (JRC)
IC200	8-759-601-87	s	CX-187 (SONY)
IC201	8-741-125-70	s	BX-1257 (SONY)
IC202	8-752-006-10	s	CX20061 (SONY)
L101	1-410-087-31	s	10mH
L102	1-410-087-31	s	10mH
L221	1-408-547-00	s	VARIABLE
L301	1-410-119-11	s	1mH

Ref No.	Parts No.	SP	Description
Q3	8-729-600-24	s	2SC403SP-51
Q4	8-729-600-24	s	2SC403SP-51
Q5	8-729-600-24	s	2SC403SP-51
Q6	8-729-600-24	s	2SC403SP-51
Q7	8-729-600-24	s	2SC403SP-51
Q8	8-729-600-24	s	2SC403SP-51
Q9	8-729-600-24	s	2SC403SP-51
Q10	8-729-600-24	s	2SC403SP-51
Q11	8-729-600-24	s	2SC403SP-51
Q12	8-729-600-24	s	2SC403SP-51
Q13	8-729-600-24	s	2SC403SP-51
Q14	8-729-600-24	s	2SC403SP-51
Q15	8-729-600-24	s	2SC403SP-51
Q16	8-729-600-24	s	2SC403SP-51
Q17	8-729-600-24	s	2SC403SP-51
Q18	8-729-201-05	s	2SC2878-B
Q30	8-729-600-24	s	2SC403SP-51
Q31	8-729-600-24	s	2SC403SP-51
Q32	8-729-611-53	s	2SA1115-F
Q33	8-729-611-53	s	2SA1115-F
Q34	8-729-600-24	s	2SC403SP-51
Q35	8-729-611-53	s	2SA1115-F
Q36	8-729-600-24	s	2SC403SP-51
Q39	8-729-600-24	s	2SC403SP-51
Q40	8-729-600-24	s	2SC403SP-51
Q70	8-729-600-24	s	2SC403SP-51
Q71	8-729-611-53	s	2SA1115-F
Q72	8-729-600-24	s	2SC403SP-51
Q73	8-729-611-53	s	2SA1115-F
Q74	8-729-600-24	s	2SC403SP-51
Q100	8-729-600-24	s	2SC403SP-51
Q101	8-729-600-24	s	2SC403SP-51
Q102	8-729-600-24	s	2SC403SP-51
Q103	8-729-600-24	s	2SC403SP-51
Q120	8-729-600-24	s	2SC403SP-51
Q130	8-729-113-33	s	2SB733-4
Q201	8-729-600-24	s	2SC403SP-51
Q230	8-729-611-33	s	2SA1115-F
Q231	8-729-384-48	s	2SA844
Q232	8-729-384-48	s	2SA844
Q233	8-729-900-36	s	DTC124ES
Q234	8-729-201-05	s	2SC2878-B
Q235	8-729-600-24	s	2SC403SP-51
Q236	8-729-384-48	s	2SA844
Q237	8-729-900-36	s	DTC124ES
Q238	8-729-900-36	s	DTC124ES
Q239	8-729-900-36	s	DTC124ES
Q240	8-729-600-24	s	2SC403SP-51
Q241	8-729-600-24	s	2SC403SP-51
Q242	8-729-600-24	s	2SC403SP-51
Q300	8-729-600-24	s	2SC403SP-51
Q301	8-729-201-05	s	2SC2878-B
Q302	8-729-201-05	s	2SC2878-B
Q303	8-729-600-24	s	2SC403SP-51
Q304	8-729-611-53	s	2SA1115-F
Q305	8-729-600-24	s	2SC403SP-51

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Ref No.	Parts No.	SP	Description
RV1	1-228-990-00	s	VAR, CARBON 1k
RV2	1-228-991-00	s	VAR, CARBON 2.2k
RV3	1-228-989-00	s	VAR, CARBON 470
RV4	1-228-995-00	s	VAR, CARBON 22k
RV5	1-228-991-00	s	VAR, CARBON 2.2k
RV6	1-228-993-00	s	VAR, CARBON 4.7k
RV7	1-228-991-00	s	VAR, CARBON 2.2k
RV8	1-228-996-00	s	VAR, CARBON 47k
RV10	1-228-994-00	s	VAR, CARBON 10k
RV11	1-228-990-00	s	VAR, CARBON 1k
RV12	1-228-990-00	s	VAR, CARBON 1k
RV13	1-228-993-00	s	VAR, CARBON 4.7k
RV14	1-228-993-00	s	VAR, CARBON 4.7k
RV15	1-228-996-00	s	VAR, CARBON 47k
RV16	1-228-994-00	s	VAR, CARBON 10k
RV17	1-228-995-00	s	VAR, CARBON 22k
RV18	1-228-991-00	s	VAR, CARBON 2.2k
RV19	1-228-991-00	s	VAR, CARBON 2.2k
TH1	1-800-200-00	s	S-3k
TH2	1-800-200-00	s	S-3K
TH3	1-800-200-00	s	S-3K

Ref No.	Parts No.	SP	Description
FRAME			
	A-6709-605-A	s	HEAD DRUM ASSY DUH-
	A-6709-602-A	s	UPPER DRUM ASSY DUR-
	⚠1-413-248-11	s	SWITCHING REGULATOR UR-14
⚠CN1001	1-534-517-00	s	CORD, AC
CN1004	1-563-355-11	s	JACK "REMOTE"
CN1011	1-507-312-00	s	RECEPTACLE 10P "RF MOD"
CN1012	1-507-410-00	s	RECEPTACLE (F TYPE) "RF OUT"
CN1015	1-563-029-21	s	CONNECTOR XLR 3P FEMALE "AUDIO LINE IN CH-1"
CN1016	1-563-029-21	s	CONNECTOR XLR 3P FEMALE "AUDIO LINE IN CH-2"
CN1017	1-563-030-21	s	CONNECTOR XLR 3P MALE "AUDIO LINE OUT CH-1"
CN1016	1-563-030-21	s	CONNECTOR XLR 3P MALE "AUDIO LINE OUT CH-2"
CN1002	1-563-356-11	s	CONNECTOR, MULTI 8P "TV"
CN1003	1-563-354-11	o	BNC "VIDEO OUT-1"
CN1004	1-563-354-11	o	BNC "VIDEO OUT-2"
CN1005	1-563-354-11	o	BNC "RF OFF TAPE OUT"
CN1006	1-563-354-11	o	BNC "VUDEO IN"
CN1007	1-563-354-11	o	BNC "EXT SYNC IN"
CN1008	1-563-354-11	o	BNC "EXT SC IN"
CN1009	1-563-989-11	s	JACK, PIN (RCA) 1P "AUDIO MONITOR"
CS1001	1-586-633-00	s	CONDENSATION SENSOR
⚠F1	1-532-743-11	s	FUSE, GLASS TUBE 2.0A
F3	1-532-742-11	s	FUSE, GLASS TUBE 1.6A
PM1001	1-454-415-11	s	SOLENOID, PLUNGER 12V 9.5/52 OHM "TAKE-UP IDLER"
PM1002	1-454-417-31	s	SOLENOID, PLUNGER 12V 12/90 OHM "TAKE-UP BRAKE"
PM1004	1-454-415-11	s	SOLENOID, PLUNGER 12V 9.5/52 OHM "SUPPLY IDLER"
PM1005	1-454-417-31	s	SOLENOID, PLUNGER 12V 12/90 OHM "SUPPLY BRAKE"
PM1006	1-454-446-11	s	SOLENOID, PLUNGER 12V 80 OHM "SKEW"
PM1007	1-454-417-31	s	SOLENOID, PLUNGER 12V 12/90 OHM "SEARCH"
PM1008	1-454-416-31	s	SOLENOID, PLUNGER 12V, 7/35 OHM "PINCH"
M1001	8-835-258-01	s	DC, BHF-1915B "CAPSTAN"
M1005	8-835-179-01	s	DC, MCB2B15 "CASSETTE COMPARTMENT"
M1006	8-835-178-01	s	DC FN30-T26N1E "REEL"

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

Ref No.	Parts No.	SP	Description
ME1001	1-520-393-00	s	METER, AUDIO
ME1002	1-520-393-00	s	METER, AUDIO
RV1001	1-237-703-11	s	VAR, CARBON 2k/2k "HEADPHONES LEVEL"
RV1002	1-237-701-11	s	VAR, CARBON 5k "CH-1 REC"
RV1003	1-237-701-11	s	VAR, CARBON 5k "CH-2 REC"
RV1004	1-237-702-11	s	VAR, CARBON 100k "TRACKING"
⚠S1001	1-570-117-31	s	SWITCH, ROCKER "AC POWER"
	1-509-898-00	s	RECEPTACLE
	1-509-910-00	s	HOUSING, CONNECTOR (2P)
	1-561-218-00	o	CONNECTOR SOCKET, 3P
	1-561-254-00	s	CONNECTOR CONTACT
S1002	1-553-789-00	s	SWITCH, SLIDE "TIMER"

Parts that are not listed in the "reference number order list" are shown in the "General Purpose Electrical Parts List".

15-4. PACKING MATERIAL AND ACCESSORIES (SUPPLIED)

Parts No.	SP	Description
3-662-364-00	s	BAG, PROTECTION
3-701-630-00	s	BAG, POLYETHYLENE
3-718-355-01	o	COVER, RF
3-718-359-01	o	CUSHION (UPPER)
3-718-360-01	o	CUSHION (LOWER)
3-718-362-01	o	INDIVIDUAL CARTON
3-769-146-21	s	MANUAL, INSTRUCTION

15-5. FIXTURE

Parts No.	SP	Description
J-6001-820-A	s	DRUM ECCENTRICITY GAUGE (3)
J-6001-830-A	s	DRUM ECCENTRICITY GAUGE (2)
J-6001-840-A	s	DRUM ECCENTRICITY GAUGE (1)
J-6001-930-A	s	DRUM ECCENTRICITY GAUGE (4)
J-6009-830-A	s	FLATNESS PLATE
J-6026-240-A	s	ADJUSTMENT DRIVER
J-6130-010-A	s	REEL TABLE HEIGHT CHECK BASE JIG
J-6130-020-A	s	REEL TABLE HEIGHT CHECK JIG
J-6153-020-A	s	DIHEDRAL ADJUSTMENT DRIVER
J-6150-140-A	s	ECCENTRICITY SCTEWDRIVER 6 MM DIA.
J-6153-580-A	s	PINCH LEVER ADJUSTMENT JIG
Y-2031-001-0	s	CLEANING FLUID
2-034-697-00	s	CLEANING PIECE
3-702-216-01	s	BACK TENSION ADJUSTMENT JIG
7-661-018-01	s	SONY OIL
7-732-050-20	s	TENISON SCALE (50g full scale)
7-732-050-30	s	TENSION SCALE (100g full scale)
7-732-050-40	s	TENSION SCALE (200g full scale)
7-732-050-50	s	TENSION SCALE (500g full scale)
8-899-999-53	s	TORQUE MEASUREMENT TAPE
8-960-015-04	s	ALIGNMENT TAPE RR5-3 SA
8-960-015-16	s	ALIGNMENT TAPE RR5-4 SB
8-960-037-02	s	ALIGNMENT TAPE RR2-1 SD
8-960-037-80	s	ALIGNMENT TAPE RR5-1 SD
9-911-053-00	s	THICKNESS GAUGE

VO-9600 (UC)
9-966-925-02 VOLUME-2

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